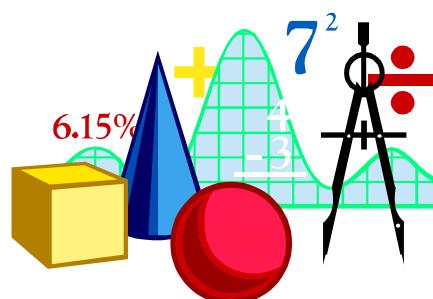


MATHEMATICS FOR PRIMARY THREE FIRST TERM

2024

PREPARED BY
Mr. MAHMOUD MOHEB

تطبيق التعلم التفاعلي





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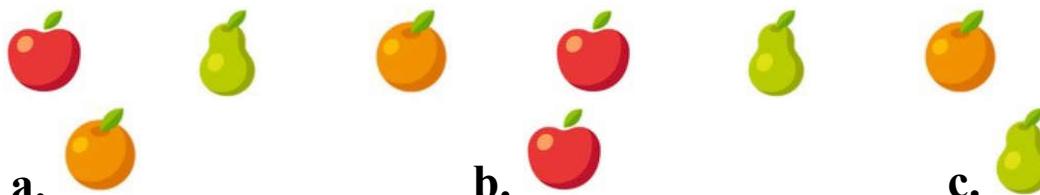
موقع مذكرة جاهزة للطباعة

Chapter One

1 THE PATTERN

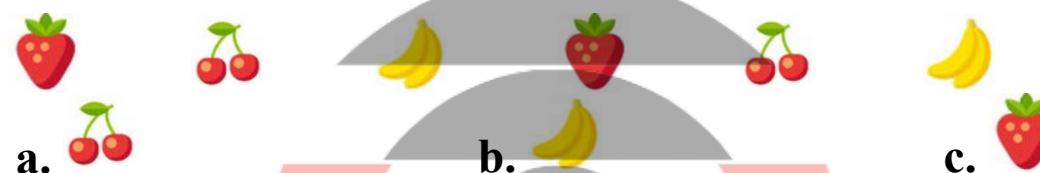
Choose the correct answer:

(1)



...

(2)



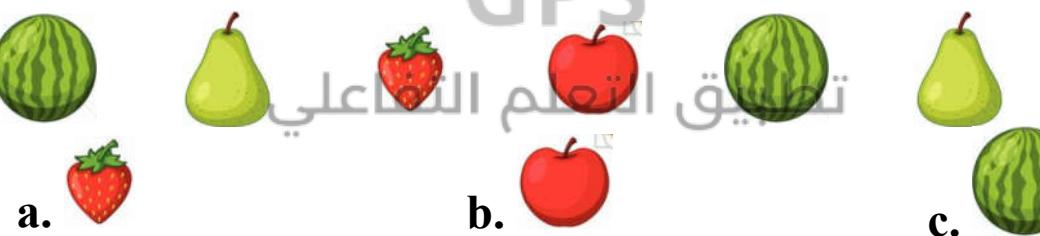
...

(3)



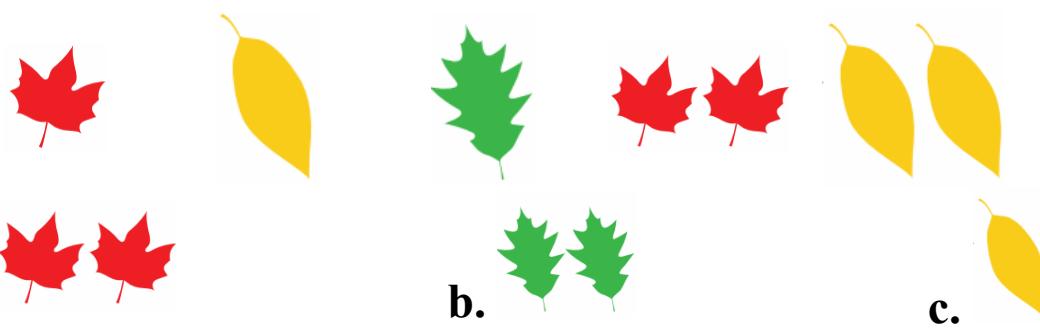
...

(4)



...

(5)



...

Choose the correct answer:

(1) 10 20 30 40 50 60 ...
 a. 50 b. 20 c. 70

(2) 5 10 15 20 25 30 ...
 a. 35 b. 40 c. 45

(3) 2 4 6 8 10 12 ...
 a. 13 b. 14 c. 15

(4) 20 30 40 50 60 70 ...
 a. 71 b. 75 c. 80

(5) 21 22 23 24 25 26 ...
 a. 20 b. 26 c. 30

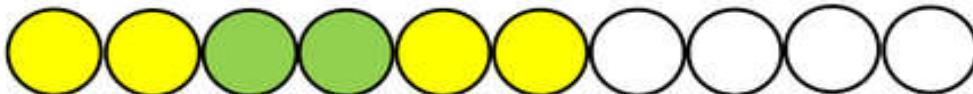
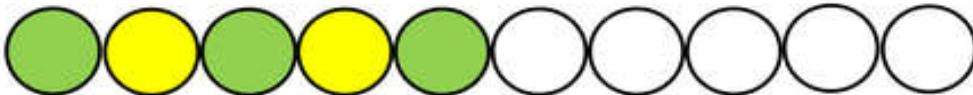
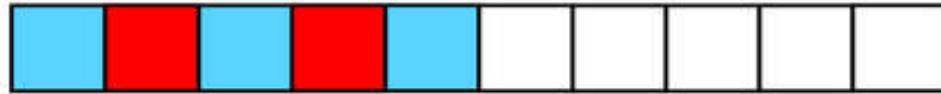
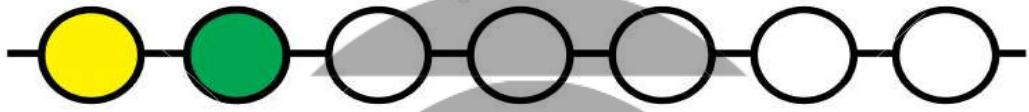
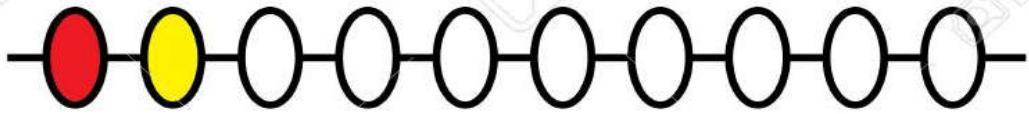
(6) 1 3 5 7 9 10 ...
 a. 10 b. 11 c. 12

(7) 34 44 54 64 74 84 ...
 a. 75 b. 76 c. 84

(8) 90 80 70 60 50 40 ...
 a. 60 b. 40 c. 20

(9) 71 61 51 41 31 21 ...
 a. 21 b. 22 c. 23

Complete the pattern using colors:



Look at each dot image. Build each image using counters.
What is the pattern? Figure out the next two images in
the pattern. Draw them in the boxes.

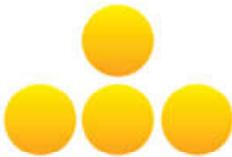


Image One

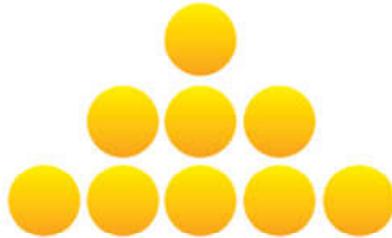


Image Two

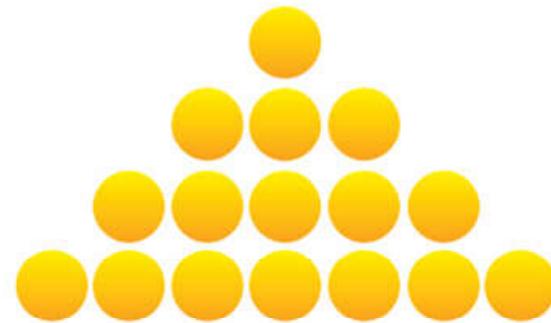


Image Three

Image FOUR

2024

GPS

Image FIVE

تطبيق التعلم التفاعلي

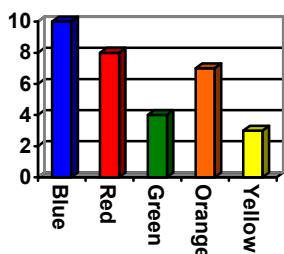
Can you predict how many counters in the 10th image? ...

2 REPRESENTING DATA

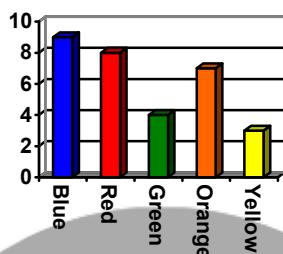
Choose the correct bar graph:

(1)

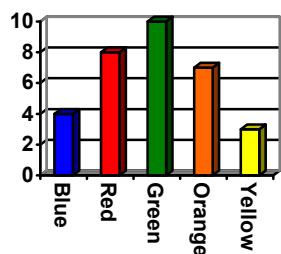
| Favorite color | Blue | Red | Green | Orange | Yellow |
|-----------------|------|-----|-------|--------|--------|
| No. of students | 10 | 8 | 4 | 7 | 3 |



a.



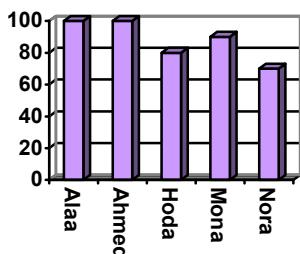
b.



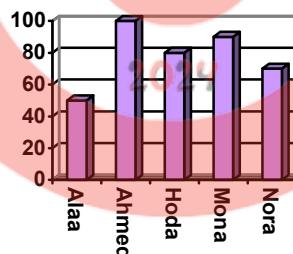
c.

(2)

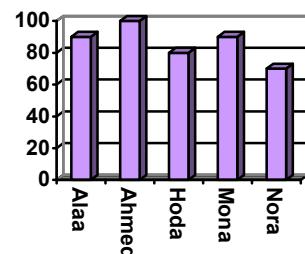
| Name | Alaa | Ahmed | Hoda | Mona | Nora |
|-------|------|-------|------|------|------|
| Marks | 90 | 100 | 80 | 90 | 70 |



a.



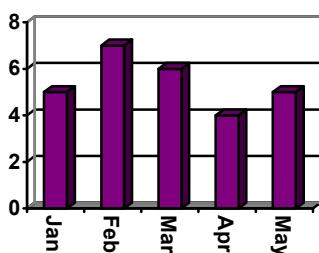
b.



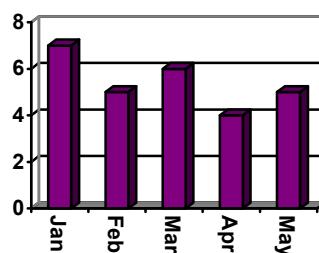
c.

(3)

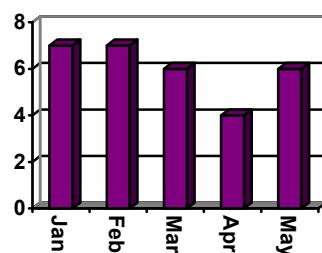
| Month | Jan. | Feb. | Mar. | Apr. | May |
|--------|------|------|------|------|-----|
| Points | 7 | 5 | 6 | 4 | 5 |



a.



b.



c.

LINE PLOTS

Antoine surveyed his friends to find out how often they went to a movie theater. The table shows the results.

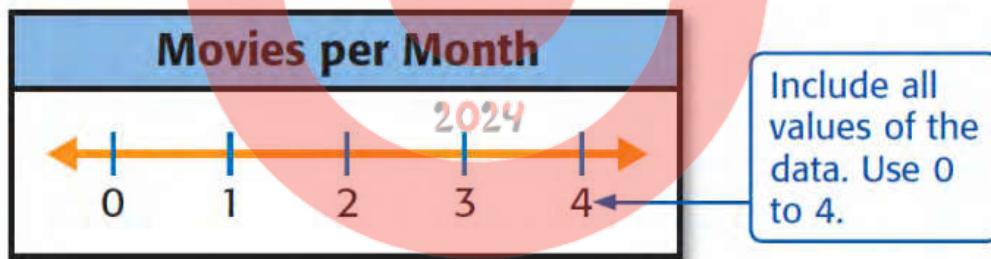
| Movies Per Month | | | |
|------------------|--------|-------|--------|
| Zack | Carla | Grace | Ivan |
| 0 | 1 | 2 | 1 |
| Ricardo | Nina | Betty | Tama |
| 1 | 2 | 0 | 1 |
| Latisha | Kelley | Gabe | Ademo |
| 2 | 1 | 4 | 1 |
| David | Judie | Drew | Lauren |
| 0 | 1 | 1 | 3 |



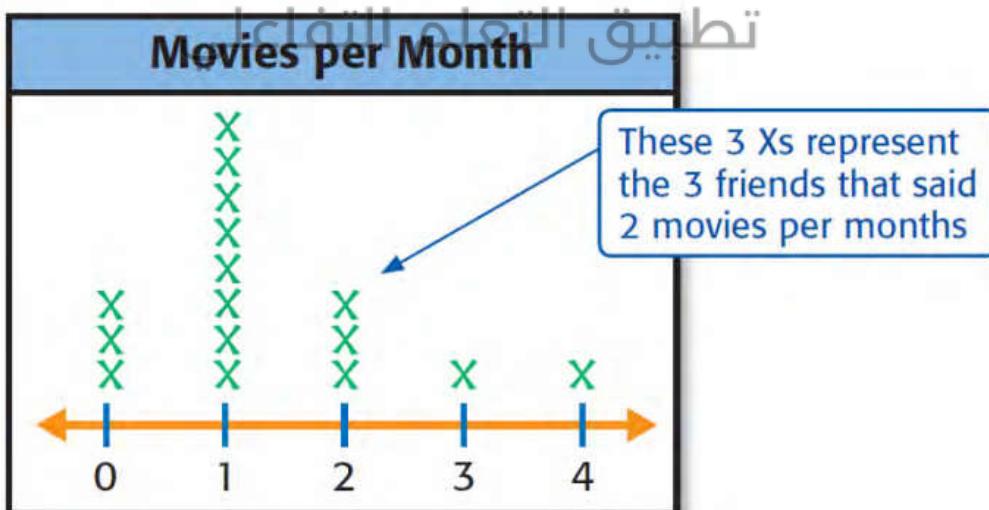
Make a Line Plot

MOVIES Make a line plot for the survey results.

Step 1 Draw and label a number line. Include all values of the data. Give it a title that describes the data.



Step 2 Draw an X above the number for each response.



Display each set of data in a line plot:

| Third-Grade Shoe Size | | | |
|-----------------------|------------|--------------|--------------|
| Jose 2 | Ana 4 | Julia 8 | Martin 3 |
| Lin 6 | Tanya 5 | Ronaldo 3 | Cheyne 4 |
| William 4 | Cole 5 | Nat 4 | Gabriel 5 |

Shoe size

| Size | Tally | Number |
|------|-------|--------|
| 2 |  | ..... |
| 3 |  | ..... |
| 4 |  | ..... |
| 5 |  | ..... |
| 6 | 2024 | ..... |
| 8 |  | ..... |

GPS

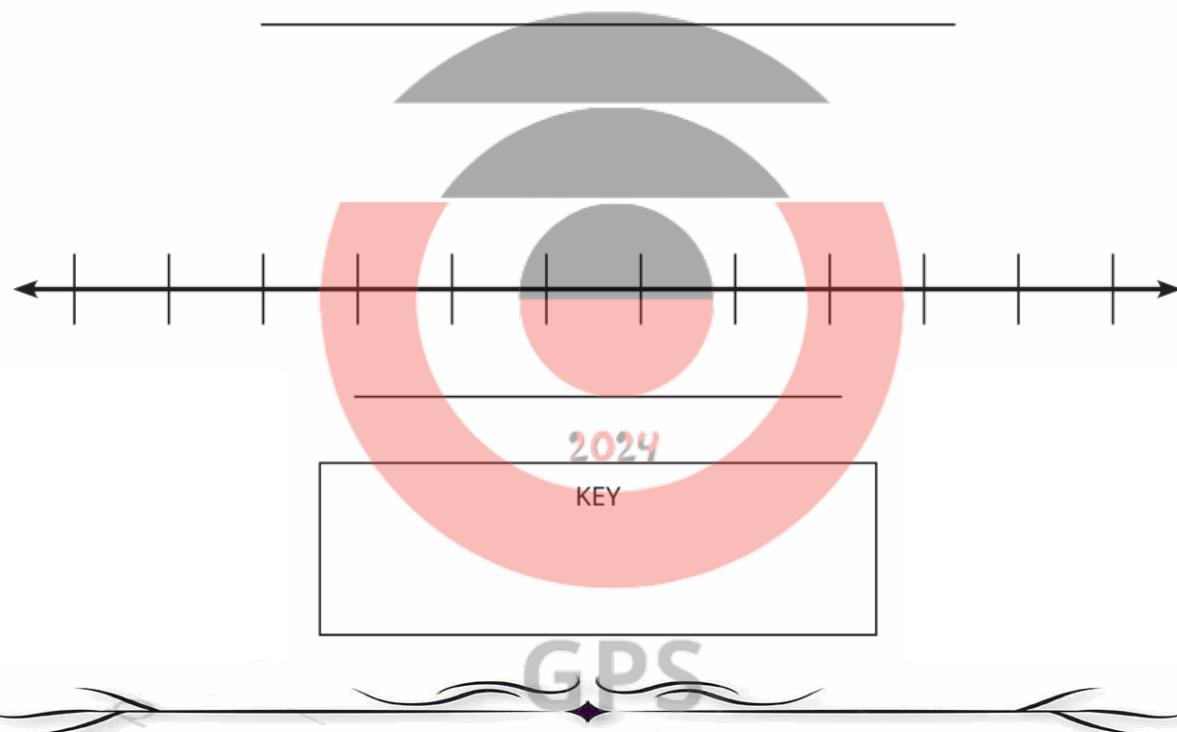
تطبيق التعليم التفاعلي



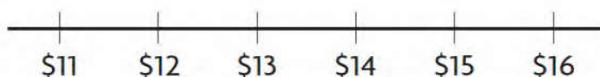
KEY

Weekly Time Spent on Homework

| Time (hours) | Tally |
|--------------|-------|
| 8 | \|\|\| |
| 9 | \|\|\|\|\| |
| 10 | \|\|\|\| |
| 11 | \|\|\|\|\| \|\|\| |



Use the data in the table to make a line plot.



How Many Shirts Were Sold at Each Price?

| How Many Shirts Were Sold at Each Price? | |
|--|-------------|
| Price | Number Sold |
| \$11 | 1 |
| \$12 | 4 |
| \$13 | 6 |
| \$14 | 4 |
| \$15 | 0 |
| \$16 | 2 |

- How many shirts sold for \$12?
- How many shirts were sold for \$13 or more?

Exercises

Create the line plot using the set of given numbers:

(1)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 6 | 4 | 7 | 8 | 9 | 8 | 7 |
| 6 | 5 | 4 | 4 | 5 | 4 | 4 | 6 |



(2)

| | | | | | | | |
|----|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 2 | 5 | 6 | 5 | 7 |
| 10 | 1 | 1 | 4 | 9 | 1 | 4 | 8 |

2024



GPS

(3)

| | | | | | | | |
|----|----|----|----|----|----|----|----|
| 20 | 22 | 22 | 23 | 23 | 23 | 23 | 24 |
| 25 | 26 | 27 | 28 | 28 | 28 | 29 | 29 |



3 MEASURING LENGTH

Complete the table:

| No. | Bars | length |
|------|------|----------|
| (1) | | cm |
| (2) | | cm |
| (3) | | cm |
| (4) | | cm |
| (5) | | cm |
| (6) | | cm |
| (7) | | cm |
| (8) | | cm |
| (9) | | cm |
| (10) | | cm |

Look at the images below, and then complete the table:

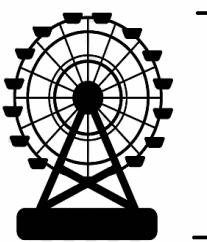
| IMAGES | METERS OR CENTIMETERS? |
|---|------------------------|
|  | |
|  | |
|  | |
|  | |
|  | |
|  | |

GPS

تطبيق التعليم التفاعلي

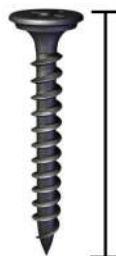
Choose the best answer:

(1) Ferris Wheel



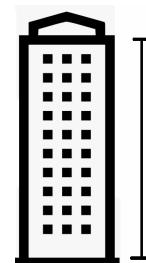
- a. 30 centimeters
- b. 5 meters
- c. 20 meters

(2) Screw



- a. 20 centimeters
- b. 1 meter
- c. 3 centimeters

(3) Building



- a. 300 centimeters
- b. 3 meters
- c. 30 meters

(4) Flash Memory



- a. 6 centimeters
- b. 30 centimeters
- c. 20 centimeters

(5) Horse



- a. 90 centimeters
- b. 2 meters
- c. 30 centimeters

(6) Key



- a. 15 centimeters
- b. 5 centimeters
- c. 1 meter

(7) Notebook



- a. 15 centimeters
- b. 5 meters
- c. 25 centimeters

(8) Recliner



- a. 30 centimeters
- b. 1 meter
- c. 50 centimeters

(9) Can of Beans



- a. 120 centimeters
- b. 3 meters
- c. 10 centimeters

Choose the suitable answer:

1. The yarn is about 5 centimeters long. Circle the best estimate for the length of the crayon.



10 centimeters



15 centimeters

20 centimeters

2. The string is about 12 centimeters long. Circle the best estimate for the length of the straw.



3 centimeters



7 centimeters



11 centimeters

3. The rope is about 8 centimeters long. Circle the best estimate for the length of the paper clip.



2 centimeters



4 centimeters



8 centimeters

4. The pencil is about 11 centimeters long. Circle the best estimate for the length of the chain.



6 centimeters



10 centimeters



13 centimeters

5. The hair clip is about 7 centimeters long. Circle the best estimate for the length of the yarn.



10 centimeters



17 centimeters

22 centimeters

Circle the better estimation:



15 cm long 50 cm long

2.



1 m tall 10 m tall



3 cm long 3 m long

4.



10 m tall 10 cm tall

Estimate the length then complete:

Find the real object.



Measure.

2029

_____ centimeters

_____ meters

teacher's desk



_____ centimeters

_____ meters

wall



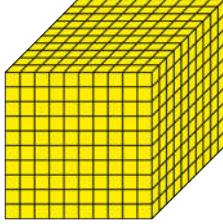
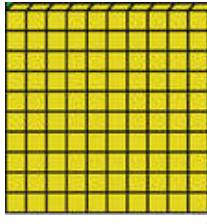
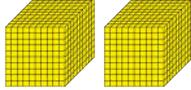
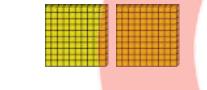
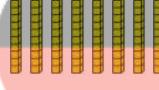
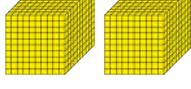
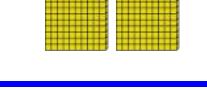
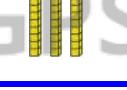
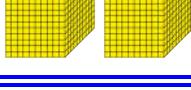
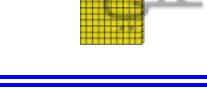
_____ centimeters

_____ meters

Chapter Two

1 THOUSANDS

Write the correct number:

| Thousands | Hundreds | Tens | Ones | The number |
|---|---|---|---|------------|
|  |  |  |  | |
|  |  |  |  | 2354 |
|  |  |  |  | |
|  |  |  |  | |
|  |  |  |  | |
|  |  |  |  | |
|  |  |  |  | |

The value and the place value

| | | | | | |
|---|--|---|--|---|--|
| I am in the hundred thousands place  My value is 200 000 | I am in the ten thousands place  My value is 40 000 | I am in the thousands place  My value is 1 000 | I am in the hundreds place  My value is 900 | I am in the tens place  My value is 80 | I am in the ones place  My value is 7 |
|---|--|---|--|---|--|

Write the value and the place value of the red digit:

| The number | The place value | The value |
|------------------|-----------------|-----------|
| 24 5 136 | Thousands | 5 000 |
| 368 1 3 2 | | |
| 703 2 0 1 | | |
| 300 1 0 9 | | |
| 623 8 7 1 | | |
| 36 9 5 0 | | |
| 79 4 5 6 | | |
| 9 2 3 4 | | |
| 652 3 4 8 | | |
| 1 4 369 | | |
| 258 9 6 3 | GPS | ..... |
| 1 9 65 | | |
| 700 0 0 0 | | |
| 1 5 0 000 | | |
| 78 4 596 | | |
| 451 2 6 3 | | |
| 102 0 0 0 | | |

Complete the Table:

| Standard form | Expanded form |
|---------------|--|
| 245 136 = | $200\ 000 + 40\ 000 + 5000 + 100 + 30 + 6$ |
| 368 132 = | ..... |
| 703 201 = | ..... |
| 300 109 = | ..... |
| 623 871 = | ..... |
| 36 950 = | ..... |
| 79 456 = | ..... |
| 9 234 = | ..... |
| 3 001 = | ..... |
| = | $600\ 000 + 50\ 000 + 2\ 000 + 300 + 40 + 8$ |
| = | $10\ 000 + 4\ 000 + 300 + 60 + 9$ |
| = | $200\ 000 + 8\ 000 + 900 + 3$ |
| = | $1\ 000 + 900 + 60 + 5$ |
| = | $700\ 000 + 200 + 4$ |
| = | $100\ 000 + 50\ 000 + 90$ |
| = | $20\ 000 + 900 + 8$ |
| = | $600\ 000 + 20\ 000 + 3000$ |

Complete using (<), (>) or (=):

23 456 33 456

34 901 21 479

10 478 9 876

124 200 321 100

987 143 976 143

801 900 800 000

65 243 $60\ 000 + 5000 + 200 + 40 + 3$

32 469 $90\ 000 + 1000 + 400 + 60 + 9$

93 241 $800\ 000 + 20\ 000 + 300 + 20 + 1$

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503 236 $500\ 000 + 3000 + 200 + 30 + 7$

600 500 seven hundred thousand

Order from **smallest to greatest**:



1 426 178 , 320 198 , 102 329 , 258 987

2 536 279 , 92 358 , 120 350 , 471 084

3 321 273 , 900 000 , 400 329 , 200 900

4 321 957 , 91 300 , 85 618 , 300 987

Order from **greatest to smallest**:



1 426 178 , 320 198 , 102 329 , 258 987

GPS

2 536 279 , 92 358 , 120 350 , 471 084

3 321 273 , 900 000 , 400 329 , 200 900

4 321 957 , 91 300 , 85 618 , 300 987

2 ARRAYS



Number of rows:
 Number of apples in each row:
 Total number of apples:
 2024



Number of rows:
 Number of cupcakes in each row:
 Total number of cupcakes:
 2024



Number of rows:
 Number of biscuits in each row:
 Total number of biscuits:
 2024



Number of rows:
 Number of donuts in each row:
 Total number of donuts:
 2024



Number of rows:
 Number of cupcakes each row:
 Total number of cupcakes:
 2024



Number of rows:
 Number of mangoes in each row:
 Total number of mangoes:
 2024



Number of rows:
 Number of eggs in each row:
 Total number of eggs:



Number of rows:
 Number of donuts in each row:
 Total number of donuts:



Number of columns:
 Number of stars in each column:
 Total number of stars:



Number of columns:
 Number of stars in each column:
 Total number of stars:



Number of columns:
 Number of stars in each column:
 Total number of stars:



Number of columns:
 Number of stars in each column:
 Total number of stars:



Number of columns:
 Number of stars in each column:
 Total number of stars:



Number of columns:
 Number of stars in each column:
 Total number of stars:



Number of columns:
 Number of stars in each column:
 Total number of stars:



Number of columns:
 Number of stars in each column:
 Total number of stars:

Example:

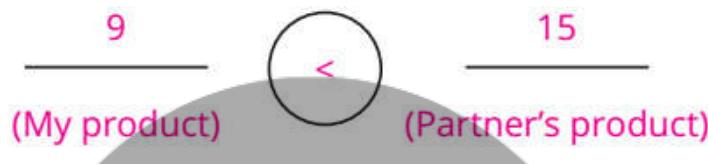
Example:



Repeated Addition (+) $3 + 3 + 3 = 9$

Multiplication (\times) $3 \times 3 = 9$

Comparison

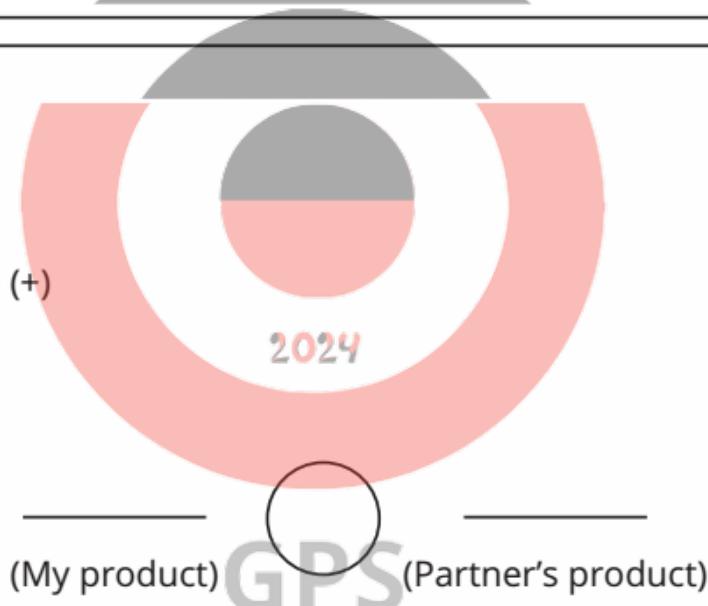


Round One:

Repeated Addition (+)

Multiplication (\times)

Comparison



تطبيق التعلم التفاعلي

Round Two:

Repeated Addition (+)

Multiplication (\times)

Comparison



Round Three:

Repeated Addition (+)

Multiplication (x)

Comparison

(My product)



(Partner's product)

Round Four:

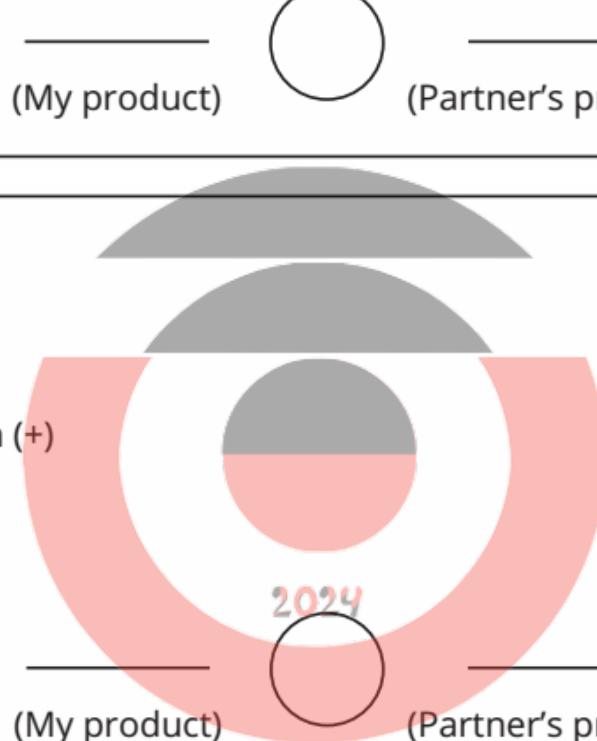
Repeated Addition (+)

Multiplication (x)

Comparison

(My product)

(Partner's product)



GPS

Round Five:

تطبيق التعلم التفاعلي

Repeated Addition (+)

Multiplication (x)

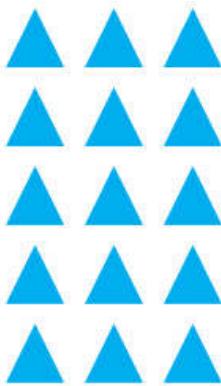
Comparison

(My product)



(Partner's product)



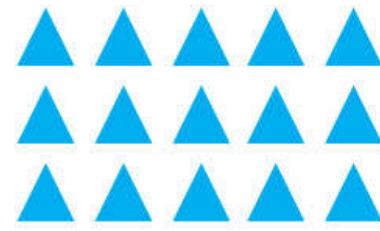


Number of rows: _____

Number of columns: _____

Total number of triangles: _____

$$\begin{array}{c} \times \\ \hline \text{rows} \end{array} \quad \begin{array}{c} \times \\ \hline \text{columns} \end{array} \quad \begin{array}{c} = \\ \text{product} \end{array}$$



Number of rows: _____

Number of columns: _____

Total number of triangles: _____

$$\begin{array}{c} \times \\ \hline \text{rows} \end{array} \quad \begin{array}{c} \times \\ \hline \text{columns} \end{array} \quad \begin{array}{c} = \\ \text{product} \end{array}$$



Number of rows: _____

Number of columns: _____

Total number of hearts: _____

$$\begin{array}{c} \times \\ \hline \text{rows} \end{array} \quad \begin{array}{c} \times \\ \hline \text{columns} \end{array} \quad \begin{array}{c} = \\ \text{product} \end{array}$$

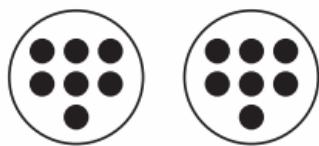


Number of rows: _____

Number of columns: _____

Total number of hearts: _____

$$\begin{array}{c} \times \\ \hline \text{rows} \end{array} \quad \begin{array}{c} \times \\ \hline \text{columns} \end{array} \quad \begin{array}{c} = \\ \text{product} \end{array}$$



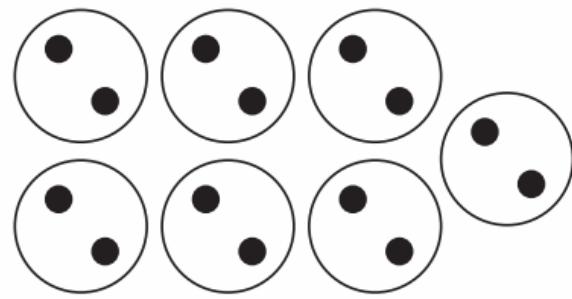
Number of circles: _____

Number of dots: _____

Total number of dots: _____

$$\underline{\quad \quad \quad} \times \underline{\quad \quad \quad} = \underline{\quad \quad \quad}$$

circles dots product



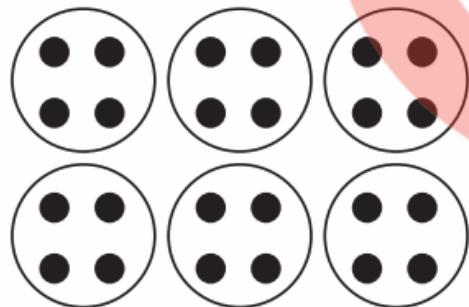
Number of circles: _____

Number of dots: _____

Total number of dots: _____

$$\underline{\quad \quad \quad} \times \underline{\quad \quad \quad} = \underline{\quad \quad \quad}$$

circles dots product



GPS

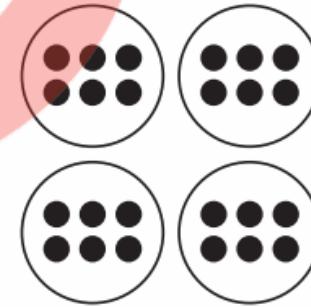
Number of circles: _____

Number of dots: _____

Total number of dots: _____

$$\underline{\quad \quad \quad} \times \underline{\quad \quad \quad} = \underline{\quad \quad \quad}$$

circles dots product



Number of circles: _____

Number of dots: _____

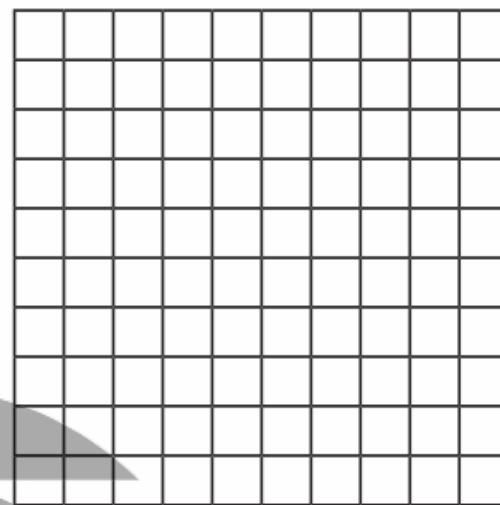
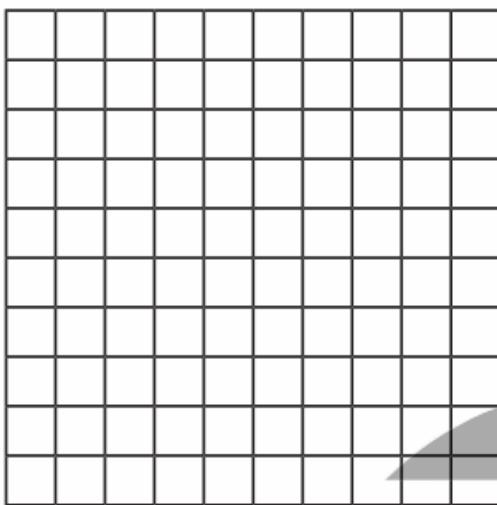
Total number of dots: _____

$$\underline{\quad \quad \quad} \times \underline{\quad \quad \quad} = \underline{\quad \quad \quad}$$

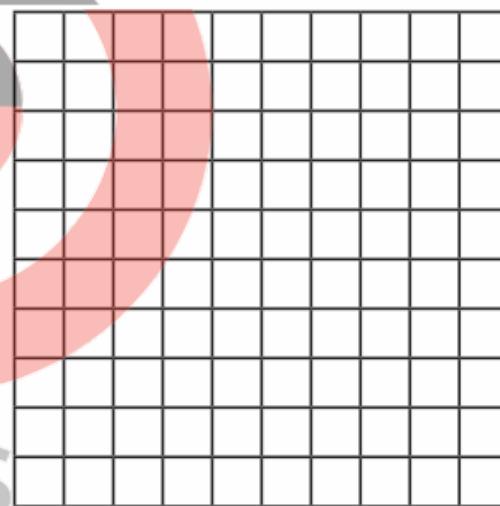
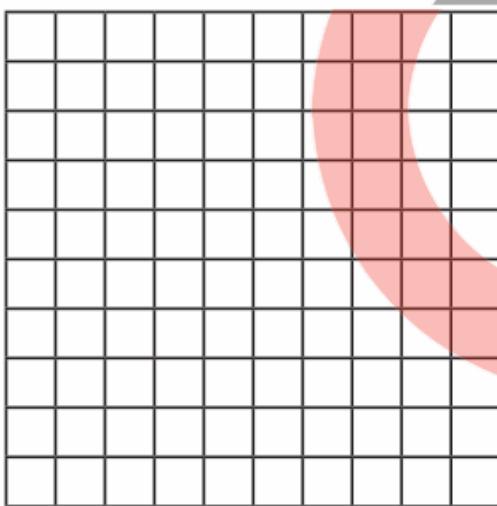
circles dots product

Directions: On the grids below, draw arrays that prove the Commutative Property of Multiplication. Label your grids with the **factors** (the two numbers you are multiplying) and **products** (the answers).

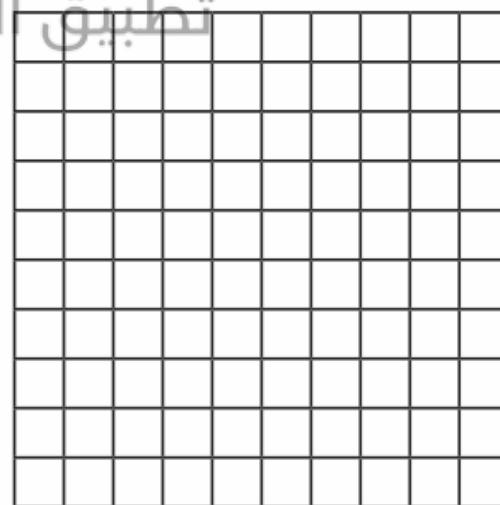
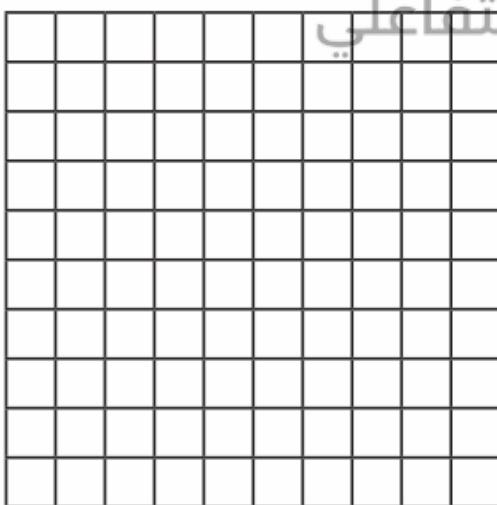
1.



2.

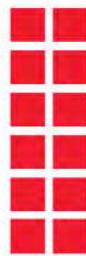


3.



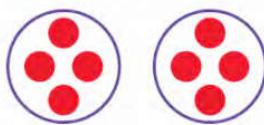
تطبيق التعلم التفاعلي

1. Write a multiplication sentence for the array.



Write a multiplication sentence for the model. Then use the Commutative Property of Multiplication to write a related multiplication sentence.

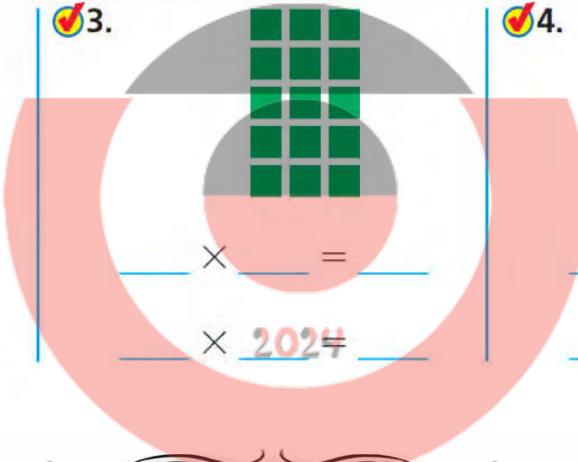
2.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

3.



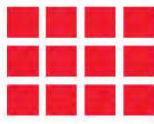
4.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

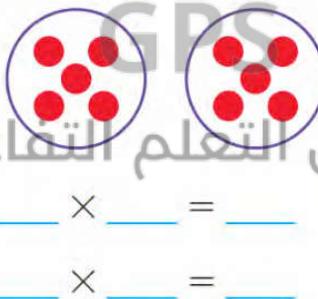
5.



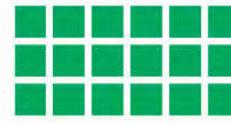
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

6.



7.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

Chapter Three

1 APPLICATIONS

Example problem: Farha went to the store to buy rolls for a big family dinner. At the store, she bought 4 bags of rolls. Each bag contained 5 rolls. How many rolls did Farha buy?

Work Space:

Multiplication equation: _____

1. On Samira's walk home she saw 6 cars. If each car has 4 wheels, how many wheels did she see in all?

Work Space:

Multiplication equation: _____

2. Manal brought 6 bags of cookies to school. Each bag had 3 cookies in it. How many cookies were there all together?

Work Space:

Multiplication equation: _____

3. Malek runs 3 miles each day. How many miles does he run in 7 days?

Work Space:

Multiplication equation: _____



4. A bag of oranges holds 4 oranges. How many oranges are in 8 bags?

Work Space:

Multiplication equation: _____



5. It takes a rocket 7 seconds to travel one kilometer. How many seconds will it take to travel 4 kilometers?

2024

Work Space:

GPS

Multiplication equation: _____ تطبيق التعليم التفاعلي



6. Each pack of pencils contains 8 pencils. How many pencils are in 3 packs?

Work Space:

Multiplication equation: _____



2 MULTIPLICATION

Use the 120 Chart below to complete the following:

- Color the multiples of 2 _____ (color stated by teacher).
- Color the multiples of 3 _____ (color stated by teacher).
- Respond to the prompts at the bottom of the page.

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |

List the first 10 multiples of 2.

____, ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

List the first 10 multiples of 3.

____, ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____ , ____

List all of the multiples you found that 2 and 3 share:

GPS

تطبيق العلم المعايير

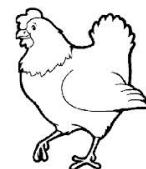
TABLE 2



تطبيق التعليم التفاعلي

Complete:

- The number of legs of 2 hens = ... \times ... = ...
- The number of legs of 3 hens = ... \times ... = ...
- The number of legs of 5 hens = ... \times ... = ...
- The number of legs of 8 hens = ... \times ... = ...
- The number of legs of 9 hens = ... \times ... = ...



$$\begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array} \quad \begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array} \quad \begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array} \quad \begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array} \quad \begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array} \quad \begin{array}{r} 2 \\ \times 7 \\ \hline 14 \end{array} \quad \begin{array}{r} 2 \\ \times 8 \\ \hline 16 \end{array} \quad \begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array} \quad \begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array} \quad \begin{array}{r} 2 \\ \times 11 \\ \hline 22 \end{array} \quad \begin{array}{r} 2 \\ \times 12 \\ \hline 24 \end{array}$$

$$\begin{array}{cccccccccccccccc} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\ \times 2 & \times 4 & \times 6 & \times 8 & \times 10 & \times 12 & \times 11 & \times 9 & \times 7 & \times 5 & \times 3 & \times 1 \end{array}$$

$$\times \quad 1 \quad \times \quad 7 \quad \times \quad 2 \quad \times \quad 8 \quad \times \quad 3 \quad \times \quad 9 \quad \times \quad 4 \quad \times \quad 10 \quad \times \quad 5 \quad \times \quad 11 \quad \times \quad 6 \quad \times \quad 12$$

$$\begin{array}{cccccccccccccccc} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\ \times 10 & \times 11 & \times 12 & \times 9 & \times 8 & \times 7 & \times 6 & \times 5 & \times 4 & \times 3 & \times 2 & \times 1 \end{array}$$

$$\times 10 \quad \times 1 \quad \times 2 \quad \times 3 \quad \times 4 \quad \times 5 \quad \times 6 \quad \times 7 \quad \times 8 \quad \times 9 \quad \times 12 \quad \times 11$$

$$\begin{array}{cccccccccccccc} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\ \times 11 & \times 10 & \times 9 & \times 8 & \times 7 & \times 6 & \times 5 & \times 4 & \times 3 & \times 2 & \times 1 & \times 12 \end{array}$$

تطبيق التعلم التفاعلي

$$\begin{array}{r}
 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\
 \times 11 & \times 10 & \times 1 & \times 2 & \times 3 & \times 4 & \times 5 & \times 6 & \times 7 & \times 8 & \times 9 & \times 12
 \end{array}$$

$$\begin{array}{ccccccccccccccccc} 2 & & 2 & & 2 & & 2 & & 2 & & 2 & & 2 & & 2 & & 2 \\ \times 10 & & \times 9 & & \times 8 & & \times 7 & & \times 6 & & \times 5 & & \times 4 & & \times 3 & & \times 2 & & \times 1 & & \times 12 & & \times 11 \end{array}$$

$$\begin{array}{cccccccccccccccc} 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 & 2 \\ \times 12 & \times 11 & \times 10 & \times 1 & \times 2 & \times 3 & \times 4 & \times 5 & \times 6 & \times 7 & \times 8 & \times 9 \end{array}$$

TABLE 3



تطبيق التعليم التفاعلي

Complete:

- The Price of 2 pens = ... \times ... = ...
- The Price of 5 pens = ... \times ... = ...
- The Price of 3 pens = ... \times ... = ...
- The Price of 7 pens = ... \times ... = ...
- The Price of 9 pens = ... \times ... = ...
- The Price of 8 pens = ... \times ... = ...



$$\begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array} \quad \begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array} \quad \begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array} \quad \begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array} \quad \begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$$

$$\begin{array}{cccccccccccccccc} 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \\ \times 2 & \times 4 & \times 6 & \times 8 & \times 10 & \times 12 & \times 11 & \times 9 & \times 7 & \times 5 & \times 3 & \times 1 \end{array}$$

$$\times \quad 1 \quad \times \quad 7 \quad \times \quad 2 \quad \times \quad 8 \quad \times \quad 3 \quad \times \quad 9 \quad \times \quad 4 \quad \times \quad 10 \quad \times \quad 5 \quad \times \quad 11 \quad \times \quad 6 \quad \times \quad 12$$

$$\begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array} \quad \begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array} \quad \begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array} \quad \begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array} \quad \begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array}$$

$$\times 12 \quad \times 1 \quad \times 2 \quad \times 3 \quad \times 4 \quad \times 5 \quad \times 6 \quad \times 7 \quad \times 8 \quad \times 9 \quad \times 10 \quad \times 11$$

$$\begin{array}{r} 3 \\ \times 11 \\ \hline 33 \end{array} \quad \begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array} \quad \begin{array}{r} 3 \\ \times 9 \\ \hline 27 \end{array} \quad \begin{array}{r} 3 \\ \times 8 \\ \hline 24 \end{array} \quad \begin{array}{r} 3 \\ \times 7 \\ \hline 21 \end{array} \quad \begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 3 \\ \times 4 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array} \quad \begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array} \quad \begin{array}{r} 3 \\ \times 1 \\ \hline 3 \end{array} \quad \begin{array}{r} 3 \\ \times 12 \\ \hline 36 \end{array}$$

تطبيق التعلم التفاعلي

$$\begin{array}{r}
 \mathbf{3} & \mathbf{3} \\
 \times \mathbf{11} & \times \mathbf{12} & \times \mathbf{1} & \times \mathbf{2} & \times \mathbf{3} & \times \mathbf{4} & \times \mathbf{5} & \times \mathbf{6} & \times \mathbf{7} & \times \mathbf{8} & \times \mathbf{9} & \times \mathbf{10}
 \end{array}$$

$$\begin{array}{ccccccccccccccccc} 3 & & 3 & & 3 & & 3 & & 3 & & 3 & & 3 & & 3 & & 3 \\ \times 10 & & \times 9 & & \times 8 & & \times 7 & & \times 6 & & \times 5 & & \times 4 & & \times 3 & & \times 2 & & \times 1 & & \times 12 & & \times 11 \end{array}$$

$$\begin{array}{cccccccccccccccc} 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 & 3 \\ \times 10 & \times 11 & \times 12 & \times 1 & \times 2 & \times 3 & \times 4 & \times 5 & \times 6 & \times 7 & \times 8 & \times 9 \end{array}$$

Use the 120 Chart to complete the following:

- Color the multiples of 10 _____ (color stated by teacher).

| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |

Write the equations for the multiples of ten. The first two have been done for you.

GPS تطبيق التعليم التفاعلي

| | |
|--|--|
| $10 \times 1 = 10$ $10 \times 2 = 20$ $10 \times 3 =$ $10 \times 4 =$ $10 \times =$ $10 \times =$ | $10 \times =$ $10 \times =$ $10 \times =$ $10 \times =$ $10 \times =$ $10 \times =$ |
|--|--|

TABLE 10



TABLE 4



$$\begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array} \quad \begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array} \quad \begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array} \quad \begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array} \quad \begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array} \quad \begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$$

$$\begin{array}{cccccccccccccc} 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 \\ \times 2 & \times 4 & \times 6 & \times 8 & \times 10 & \times 12 & \times 11 & \times 9 & \times 7 & \times 5 & \times 3 & \times 1 \end{array}$$

$$\begin{array}{cccccccccccccc}
 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 \\
 \times 12 & \times 11 & \times 10 & \times 9 & \times 8 & \times 7 & \times 6 & \times 5 & \times 4 & \times 3 & \times 2 & \times 1
 \end{array}$$

$$\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array} \quad \begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array} \quad \begin{array}{r} 4 \\ \times 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array} \quad \begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array} \quad \begin{array}{r} 4 \\ \times 8 \\ \hline 32 \end{array} \quad \begin{array}{r} 4 \\ \times 9 \\ \hline 36 \end{array} \quad \begin{array}{r} 4 \\ \times 10 \\ \hline 40 \end{array} \quad \begin{array}{r} 4 \\ \times 11 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 & 4 \\ \times 11 & \times 10 & \times 9 & \times 8 & \times 7 & \times 6 & \times 5 & \times 4 & \times 3 & \times 2 & \times 1 & \times 12 \end{array}$$

تطبيقات التعلم التفاعلي

4 4 4 4 4 4 4 4 4 4 4 4 4 4

TABLE 5



Use the 120 Chart on the previous page to complete the following:

- Color the multiples of 5 _____ (color stated by teacher).
- Write the equations for the multiples of five. The first two have been done for you.

$$5 \times 1 = 5$$

$$5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$5 \times 2 = 10$$

$$5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$5 \times 3 = \underline{\hspace{2cm}}$$

$$5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$5 \times 4 = \underline{\hspace{2cm}}$$

$$5 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$



$$\begin{array}{r} 5 \\ \times 1 \end{array} \quad \begin{array}{r} 5 \\ \times 2 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \end{array} \quad \begin{array}{r} 5 \\ \times 7 \end{array} \quad \begin{array}{r} 5 \\ \times 8 \end{array} \quad \begin{array}{r} 5 \\ \times 9 \end{array} \quad \begin{array}{r} 5 \\ \times 10 \end{array} \quad \begin{array}{r} 5 \\ \times 11 \end{array} \quad \begin{array}{r} 5 \\ \times 12 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \end{array} \quad \begin{array}{r} 2 \\ \times 5 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \end{array} \quad \begin{array}{r} 6 \\ \times 5 \end{array} \quad \begin{array}{r} 7 \\ \times 5 \end{array} \quad \begin{array}{r} 8 \\ \times 5 \end{array} \quad \begin{array}{r} 9 \\ \times 5 \end{array} \quad \begin{array}{r} 10 \\ \times 5 \end{array} \quad \begin{array}{r} 11 \\ \times 5 \end{array} \quad \begin{array}{r} 12 \\ \times 5 \end{array}$$

$$\begin{array}{r} 5 \\ \times 2 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \end{array} \quad \begin{array}{r} 5 \\ \times 8 \end{array} \quad \begin{array}{r} 5 \\ \times 10 \end{array} \quad \begin{array}{r} 5 \\ \times 12 \end{array} \quad \begin{array}{r} 5 \\ \times 11 \end{array} \quad \begin{array}{r} 5 \\ \times 9 \end{array} \quad \begin{array}{r} 5 \\ \times 7 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \end{array} \quad \begin{array}{r} 5 \\ \times 1 \end{array}$$

$$\begin{array}{r} 5 \\ \times 1 \end{array} \quad \begin{array}{r} 5 \\ \times 7 \end{array} \quad \begin{array}{r} 5 \\ \times 2 \end{array} \quad \begin{array}{r} 5 \\ \times 8 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \end{array} \quad \begin{array}{r} 5 \\ \times 9 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \end{array} \quad \begin{array}{r} 5 \\ \times 10 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \end{array} \quad \begin{array}{r} 5 \\ \times 11 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \end{array} \quad \begin{array}{r} 5 \\ \times 12 \end{array}$$

$$\begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array} \quad \begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array} \quad \begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array} \quad \begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array} \quad \begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array} \quad \begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array} \quad \begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array} \quad \begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 1 \\ \times 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array} \quad \begin{array}{r} 3 \\ \times 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array} \quad \begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array} \quad \begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array} \quad \begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array} \quad \begin{array}{r} 10 \\ \times 5 \\ \hline 50 \end{array} \quad \begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array} \quad \begin{array}{r} 12 \\ \times 5 \\ \hline 60 \end{array}$$

$$\begin{array}{cccccccccccccccc} 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ \times 2 & \times 4 & \times 6 & \times 8 & \times 10 & \times 12 & \times 11 & \times 9 & \times 7 & \times 5 & \times 3 & \times 1 \end{array}$$

$$\times 1 \quad \times 7 \quad \times 2 \quad \times 8 \quad \times 3 \quad \times 9 \quad \times 4 \quad \times 10 \quad \times 5 \quad \times 11 \quad \times 6 \quad \times 12$$

$$\begin{array}{cccccccccccccccc} 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\ \times 12 & \times 11 & \times 10 & \times 9 & \times 8 & \times 7 & \times 6 & \times 5 & \times 4 & \times 3 & \times 2 & \times 1 \end{array}$$

$$\times 12 \quad \times 1 \quad \times 2 \quad \times 3 \quad \times 4 \quad \times 5 \quad \times 6 \quad \times 7 \quad \times 8 \quad \times 9 \quad \times 10 \quad \times 11$$

$$\begin{array}{r} 5 \\ \times 11 \\ \hline 55 \end{array} \quad \begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array} \quad \begin{array}{r} 5 \\ \times 9 \\ \hline 45 \end{array} \quad \begin{array}{r} 5 \\ \times 8 \\ \hline 40 \end{array} \quad \begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array} \quad \begin{array}{r} 5 \\ \times 2 \\ \hline 10 \end{array} \quad \begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array} \quad \begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$$

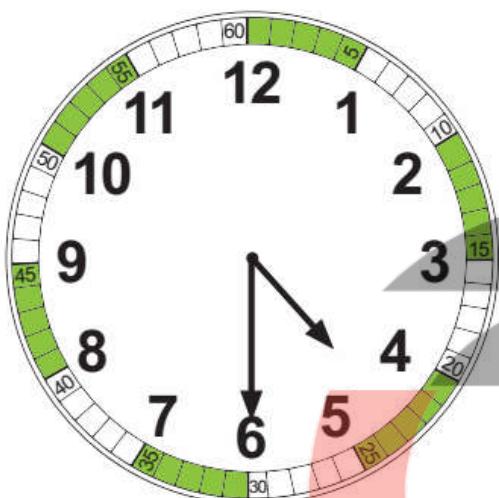
تطبيق التعلم التفاعلي

$$\times 10 \quad \times 9 \quad \times 8 \quad \times 7 \quad \times 6 \quad \times 5 \quad \times 4 \quad \times 3 \quad \times 2 \quad \times 1 \quad \times 12 \quad \times 11$$

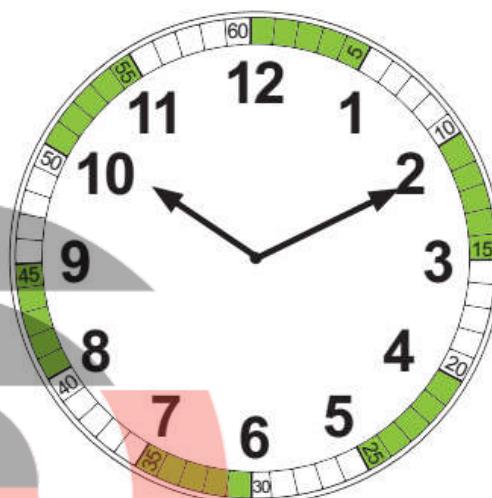
APPLICATION



Directions: Look at each of the clocks below. Determine the time on the analog clock and write the digital time below. Remember that each hour number represents a group of 5 minutes.



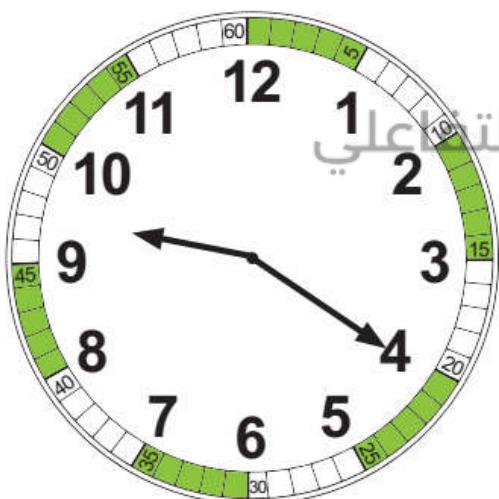
_____ : _____



_____ : _____

GPS

تطبيق التعليم التفاعلي



_____ : _____



_____ : _____



Draw the minute hand on the analog clock.

Round One:



Round Two:



Round Three:



1 : **30**

2 : **30**

7 : **15**

Round Four:



Round Five:



تطبيق التعلم التفاعلي

4 : **35** **10** : **45**

Draw the minute hand to show the time.



11:15



8:30



10:45



6:45



4:15



9:30



7:45



12:30



2:15



1:45



3:30



6:00

تطبيق التعليم التفاعلي

Look at the clock hands. Write the time.

1.



2.



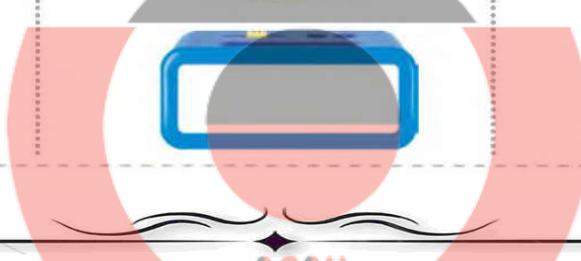
3.



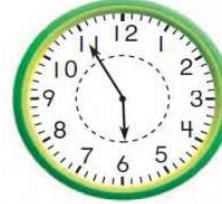
4.



5.



6.

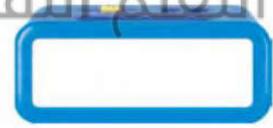


Look at the clock hands. Write the time.

7.



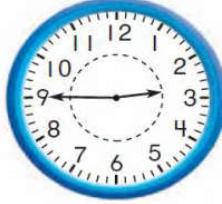
8.



9.



10.



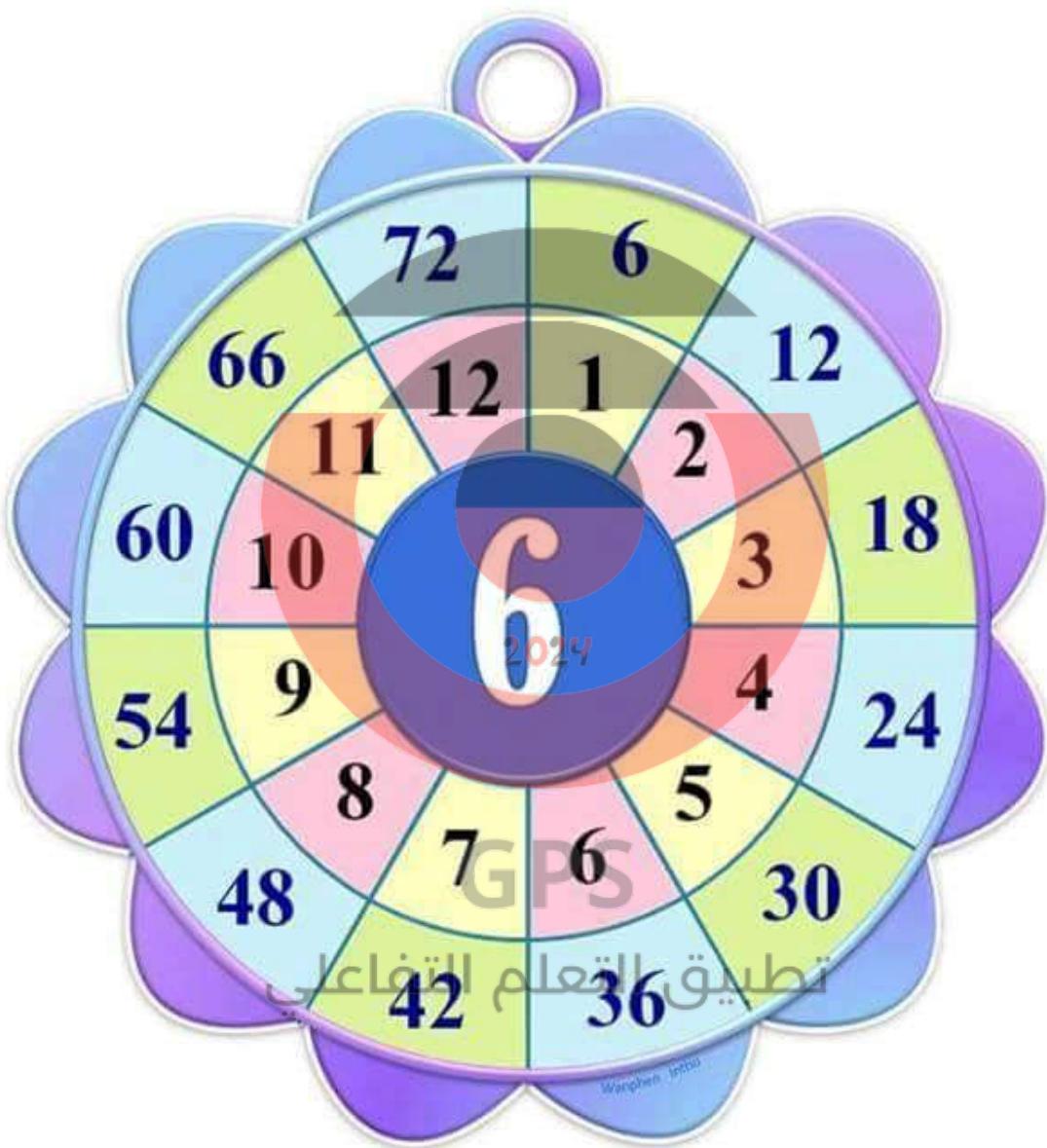
11.



12.



TABLE 6



$$\begin{array}{r} 1 \\ \times 6 \\ \hline 6 \end{array} \quad \begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array} \quad \begin{array}{r} 3 \\ \times 6 \\ \hline 18 \end{array} \quad \begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array} \quad \begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array} \quad \begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array} \quad \begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array} \quad \begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array} \quad \begin{array}{r} 11 \\ \times 6 \\ \hline 66 \end{array} \quad \begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$$

$$\begin{array}{cccccccccccccccc} 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \\ \times 2 & \times 4 & \times 6 & \times 8 & \times 10 & \times 12 & \times 11 & \times 9 & \times 7 & \times 5 & \times 3 & \times 1 \end{array}$$

$$\begin{array}{r} 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \\ \times 1 & \times 7 & \times 2 & \times 8 & \times 3 & \times 9 & \times 4 & \times 10 & \times 5 & \times 11 & \times 6 & \times 12 \end{array}$$

$$\begin{array}{r} 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \\ \times 12 & \times 11 & \times 10 & \times 9 & \times 8 & \times 7 & \times 6 & \times 5 & \times 4 & \times 3 & \times 2 & \times 1 \end{array}$$

$$\begin{array}{r} 6 \\ \times 12 \\ \hline 6 \end{array} \quad \begin{array}{r} 6 \\ \times 1 \\ \hline 6 \end{array} \quad \begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array} \quad \begin{array}{r} 6 \\ \times 3 \\ \hline 18 \end{array} \quad \begin{array}{r} 6 \\ \times 4 \\ \hline 24 \end{array} \quad \begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array} \quad \begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array} \quad \begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array} \quad \begin{array}{r} 6 \\ \times 8 \\ \hline 48 \end{array} \quad \begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array} \quad \begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array} \quad \begin{array}{r} 6 \\ \times 11 \\ \hline 66 \end{array}$$

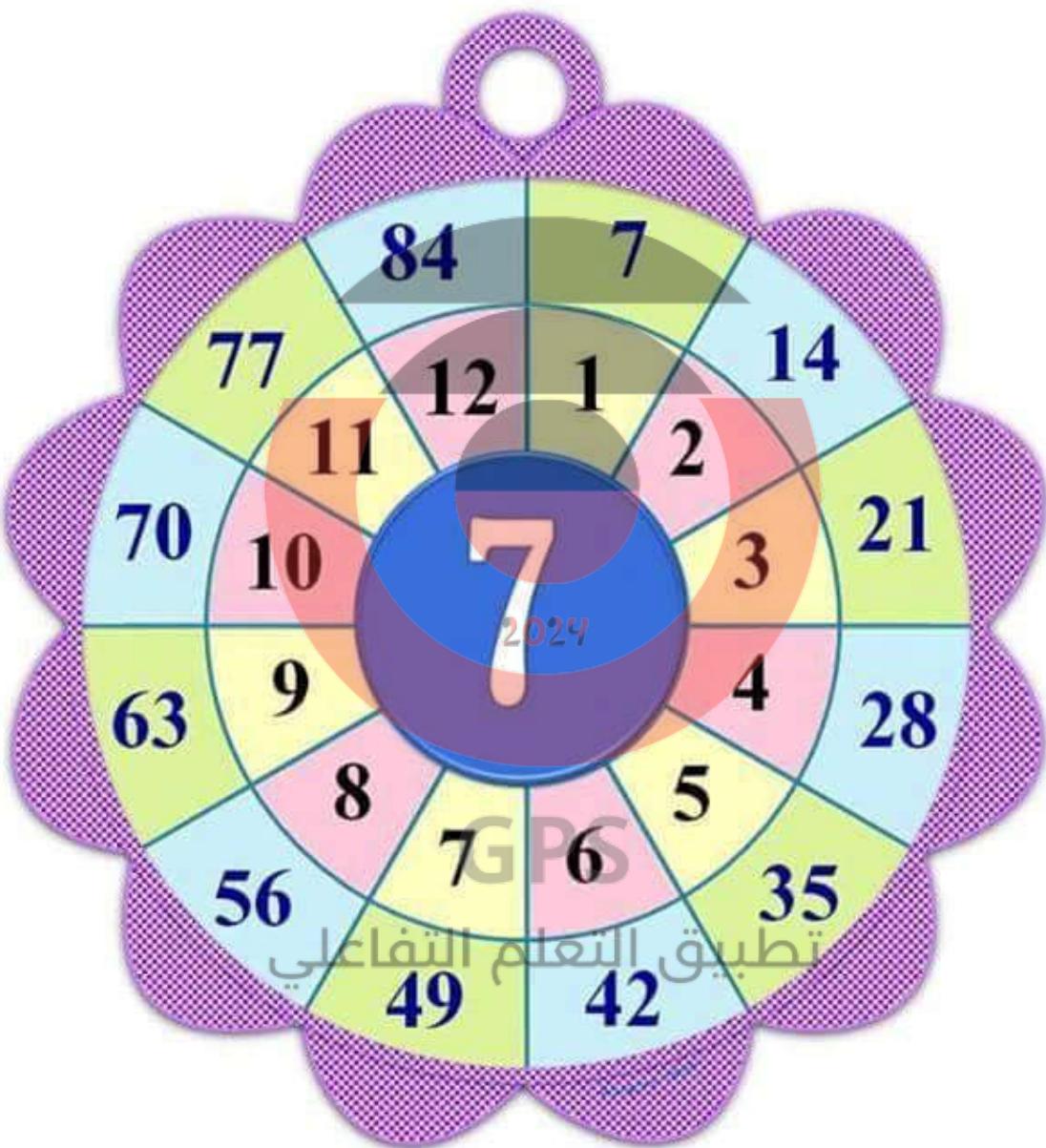
$$\begin{array}{r} 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 & 6 \\ \times 11 & \times 10 & \times 9 & \times 8 & \times 7 & \times 6 & \times 5 & \times 4 & \times 3 & \times 2 & \times 1 & \times 12 \end{array}$$

$$\times 11 \quad \times 12 \quad \times 1 \quad \times 2 \quad \times 3 \quad \times 4 \quad \times 5 \quad \times 6 \quad \times 7 \quad \times 8 \quad \times 9 \quad \times 10$$

تطبيق التعلم التفاعلي

6 6 6 6 6 6 6 6 6 6 6 6 6

TABLE 7



تطبيق التعلم التفاعلي

$$\begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array} \quad \begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array} \quad \begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array} \quad \begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array} \quad \begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array} \quad \begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array} \quad \begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$$

$$\times \frac{1}{7} \quad \times \frac{2}{7} \quad \times \frac{3}{7} \quad \times \frac{4}{7} \quad \times \frac{5}{7} \quad \times \frac{6}{7} \quad \times \frac{7}{7} \quad \times \frac{8}{7} \quad \times \frac{9}{7} \quad \times \frac{10}{7} \quad \times \frac{11}{7} \quad \times \frac{12}{7}$$

$$\begin{array}{cccccccccccccc} 7 & 7 & 7 & 7 & 7 & 7 & 7 & 7 & 7 & 7 & 7 & 7 & 7 \\ \times 2 & \times 4 & \times 6 & \times 8 & \times 10 & \times 12 & \times 11 & \times 9 & \times 7 & \times 5 & \times 3 & \times 1 \end{array}$$

$$\times \quad 1 \quad \times \quad 7 \quad \times \quad 2 \quad \times \quad 8 \quad \times \quad 3 \quad \times \quad 9 \quad \times \quad 4 \quad \times \quad 10 \quad \times \quad 5 \quad \times \quad 11 \quad \times \quad 6 \quad \times \quad 12$$

$$\begin{array}{r} 7 \\ \times 12 \\ \hline 14 \end{array} \quad \begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array} \quad \begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array} \quad \begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array} \quad \begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array} \quad \begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array} \quad \begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array} \quad \begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 7 \\ \times 12 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 2 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 3 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 7 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 9 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 10 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 11 \\ \hline 7 \end{array}$$

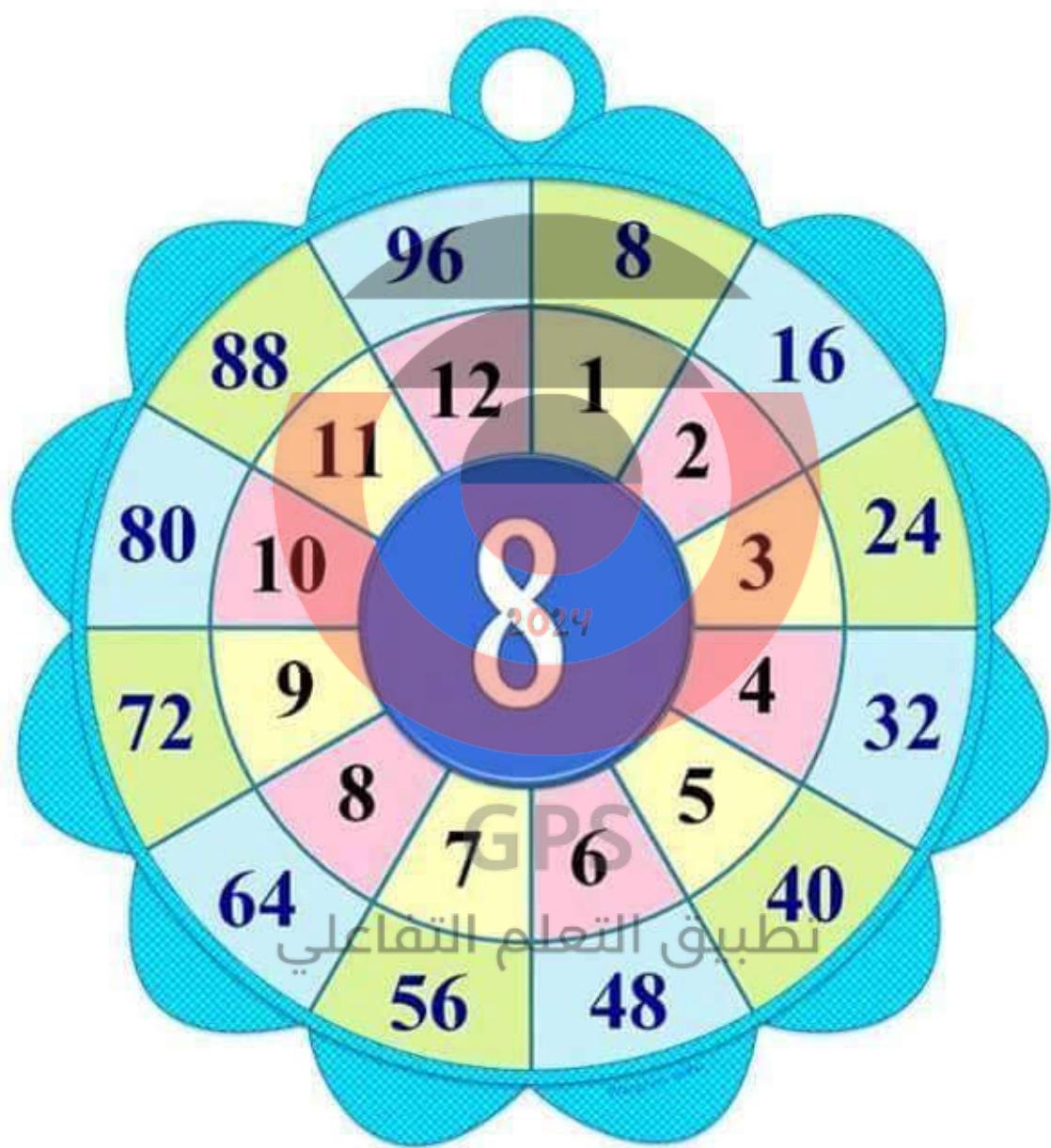
$$\begin{array}{r} 7 \\ \times 11 \\ \hline 77 \end{array} \quad \begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array} \quad \begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array} \quad \begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array} \quad \begin{array}{r} 7 \\ \times 6 \\ \hline 42 \end{array} \quad \begin{array}{r} 7 \\ \times 5 \\ \hline 35 \end{array} \quad \begin{array}{r} 7 \\ \times 4 \\ \hline 28 \end{array} \quad \begin{array}{r} 7 \\ \times 3 \\ \hline 21 \end{array} \quad \begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array} \quad \begin{array}{r} 7 \\ \times 1 \\ \hline 7 \end{array} \quad \begin{array}{r} 7 \\ \times 12 \\ \hline 84 \end{array}$$

تطبيق التعلم التفاعلي

$$\times 10 \quad \times 8 \quad \times 8 \quad \times 7 \quad \times 7 \quad \times 6 \quad \times 5 \quad \times 4 \quad \times 3 \quad \times 3 \quad \times 1 \quad \times 12 \quad \times 11$$

$\times 10$ $\times 11$ $\times 12$ $\times 1$ $\times 2$ $\times 3$ $\times 4$ $\times 5$ $\times 6$ $\times 7$ $\times 8$ $\times 9$ $\times 0$

TABLE 8



$$\begin{array}{r} 8 \\ \times 1 \\ \hline 8 \end{array} \quad \begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array} \quad \begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array} \quad \begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array} \quad \begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array} \quad \begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array} \quad \begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array} \quad \begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array} \quad \begin{array}{r} 8 \\ \times 9 \\ \hline 72 \end{array} \quad \begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array} \quad \begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array} \quad \begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$$

$$\begin{array}{cccccccccccccccc} 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 & 8 \\ \times 2 & \times 4 & \times 6 & \times 8 & \times 10 & \times 12 & \times 11 & \times 9 & \times 7 & \times 5 & \times 3 & \times 1 \end{array}$$

$$\times 1 \quad \times 7 \quad \times 2 \quad \times 8 \quad \times 3 \quad \times 9 \quad \times 4 \quad \times 10 \quad \times 5 \quad \times 11 \quad \times 6 \quad \times 12$$

$$\times 12 \quad \times 11 \quad \times 10 \quad \times 9 \quad \times 8 \quad \times 7 \quad \times 6 \quad \times 5 \quad \times 4 \quad \times 3 \quad \times 2 \quad \times 1$$

8 8 8 8 8 8 8 8 8 8 8 8 تطبيق التعلم التفاعلي

8 8 8 8 8 8 8 8 8 8 8 8 8

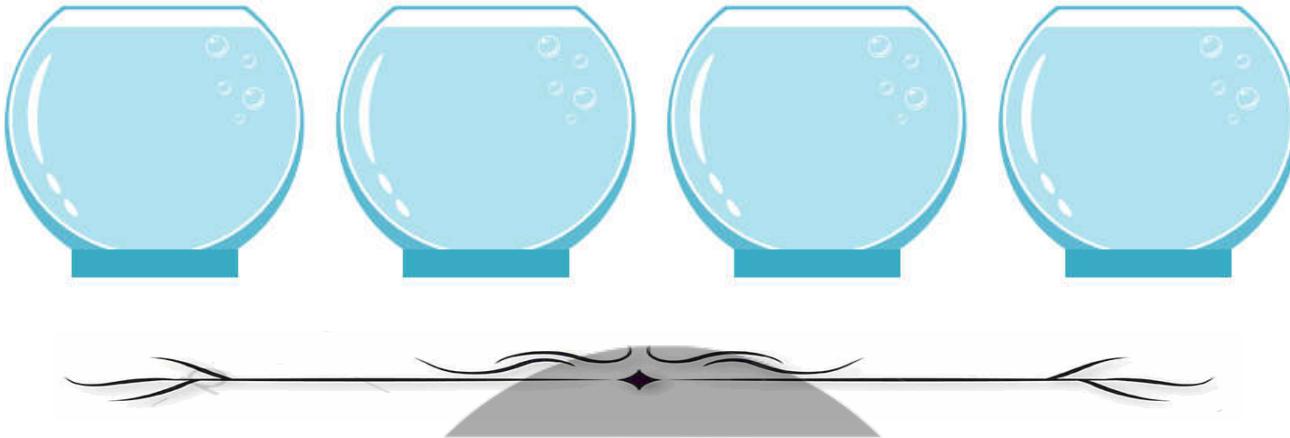
8 8 8 8 8 8 8 8 8 8 8 8 8

TABLE 9



تطبيق التعام التفاعلي

1. There are 16 fish that need to be placed in 4 bowls. Each bowl must hold the same number of fish. How many fish should be put into each bowl? Draw a picture in the bowls below to solve the problem.



2. Sameh is preparing gift baskets. He has 20 oranges that need to be divided equally between 5 baskets. Draw a picture in the baskets below to solve the problem.



تطبيق التعليم التفاعلي



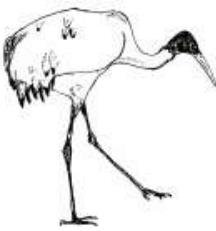
3. The teacher has 36 crayons to share equally between 6 students. She must place the crayons in the cups below. Draw a picture in the cups below to solve the problem.



Directions: Draw a mathematical picture to solve.

Each cat needs 2 fish for lunch. How many cats can we feed with 12 fish?

1. Each ibis will eat 3 worms. You have 18 worms. How many ibis can be fed?



2. Each jackal must eat 6 insects. There are 24 insects. How many jackals can be fed?

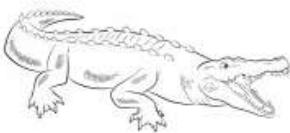


2024

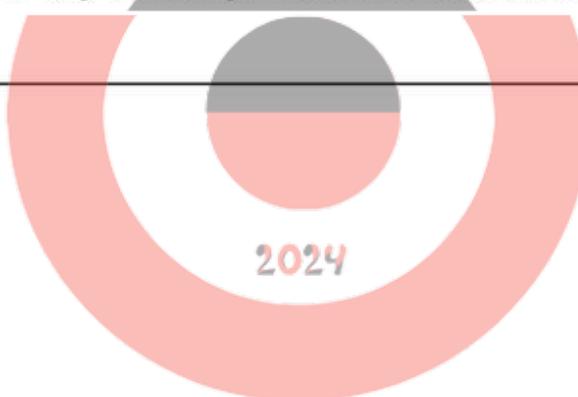
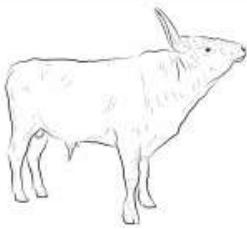
GPS

تطبيق التعلم التفاعلي

3. Each crocodile wants to eat 5 fish. There are 25 fish. How many crocodiles can be fed?



4. Each bull eats 2 bales of hay each day. There are 100 bales. How many bulls can be fed each day?

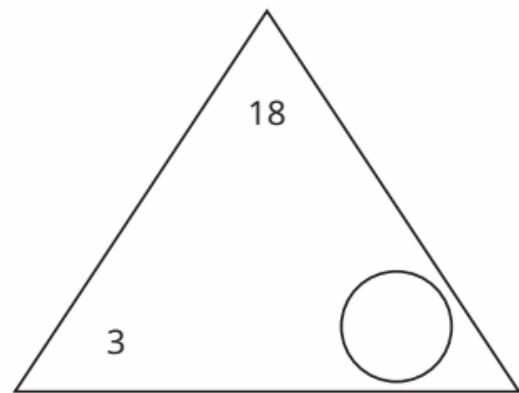
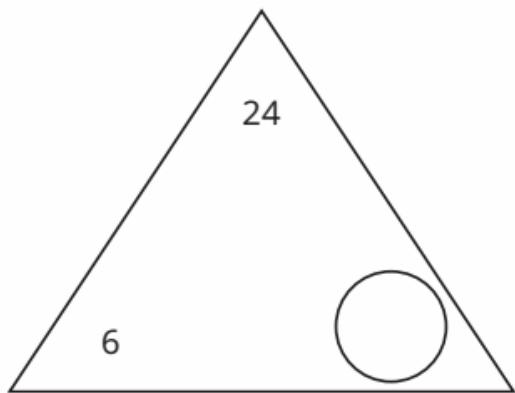


GPS

تطبيق التعليم التفاعلي

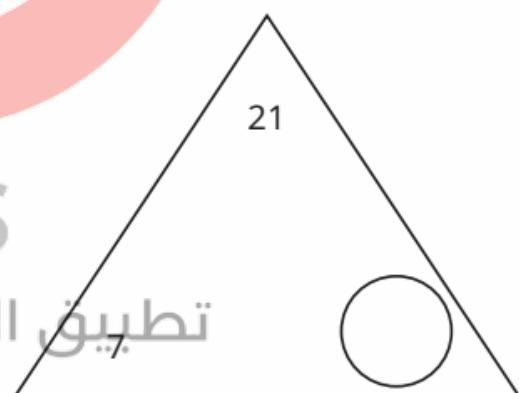
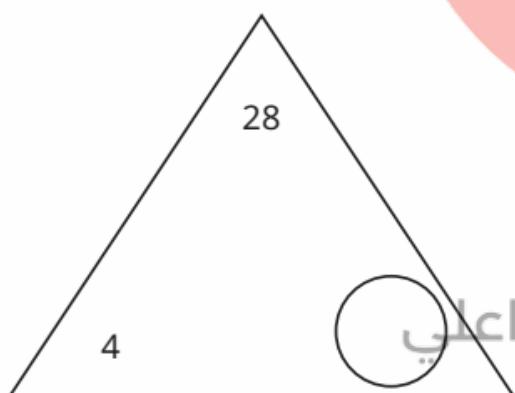


Directions: Find the missing factor in the triangles below. Then write the four equations that go with the fact family. Use the counters to help you.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$



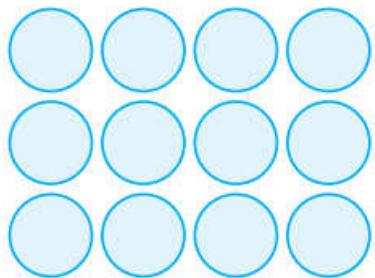
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$

GPS

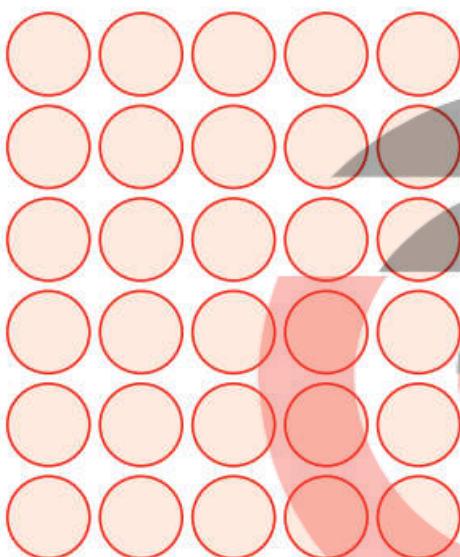
تطبيق التعليم التفاعلي

CHALLENGE: Describe each of these arrays using one multiplication equation and one division equation.



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$



$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$



تطبيق التعليم التفاعلي

Chapter Four

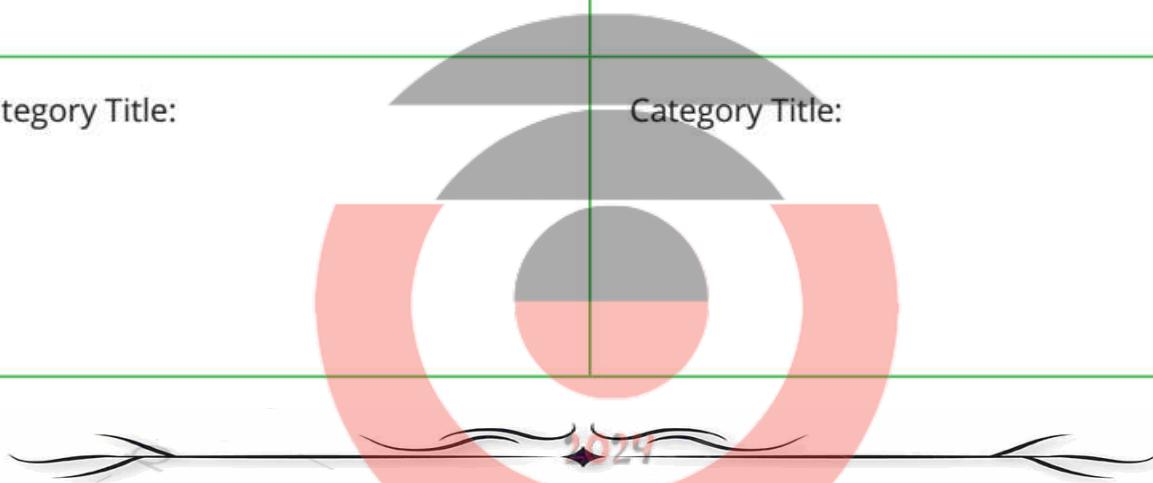
1 POLYGONS

Classify According to the number of vertices:



تطبيق التعليم التفاعلي

| | |
|---|-----------------|
| Category Title: Four Vertices Square Rectangle | Category Title: |
| Category Title: | Category Title: |
| Category Title: | Category Title: |



Directions: Find the missing factor by rolling the die or choosing a number card. Record the missing factor in one of the problems below and then solve. When finished, circle the facts that were the easiest for you to solve.

Mystery Multiplication

تطبيق التعلم التفاعلي

$$1 \times \underline{\quad} = \underline{\quad}$$

$$2 \times \underline{\quad} = \underline{\quad}$$

$$3 \times \underline{\quad} = \underline{\quad}$$

$$4 \times \underline{\quad} = \underline{\quad}$$

$$5 \times \underline{\quad} = \underline{\quad}$$

$$6 \times \underline{\quad} = \underline{\quad}$$

$$7 \times \underline{\quad} = \underline{\quad}$$

$$8 \times \underline{\quad} = \underline{\quad}$$

$$9 \times \underline{\quad} = \underline{\quad}$$

$$10 \times \underline{\quad} = \underline{\quad}$$

$$11 \times \underline{\quad} = \underline{\quad}$$

$$12 \times \underline{\quad} = \underline{\quad}$$

Quadrilaterals are named by their sides and their angles.

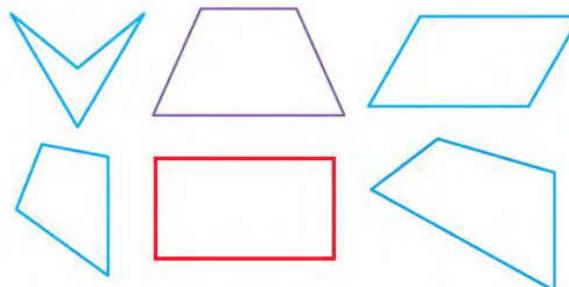


Describe quadrilaterals.

quadrilateral

_____ sides

_____ angles

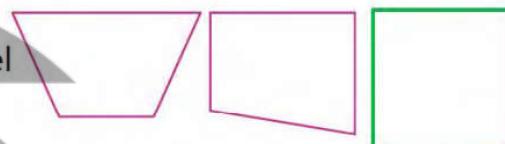


ERROR Alert

Some quadrilaterals cannot be classified as a trapezium, rectangle, square, or rhombus.

trapezium

at least _____ pair of opposite sides that are parallel
 lengths of sides could be the same

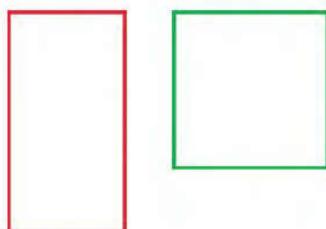


rectangle

_____ pairs of opposite sides that are parallel

_____ pairs of sides that are of equal length

_____ right angles



square

_____ pairs of opposite sides that are parallel

_____ sides that are of equal length

_____ right angles

GPS
تطبيق التعليم التفاعلي

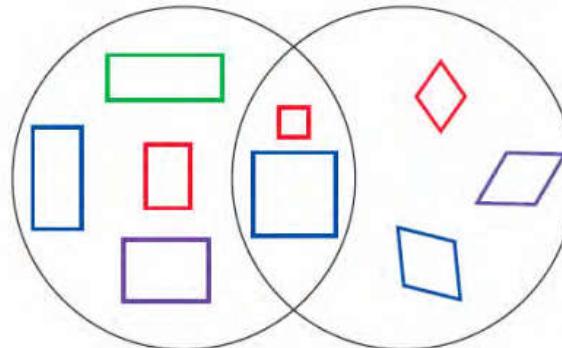
rhombus

_____ pairs of opposite sides that are parallel

_____ sides that are of equal length



Rectangles



Rhombuses

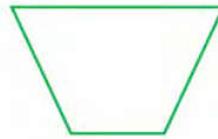
Circle all the words that describe the quadrilateral.



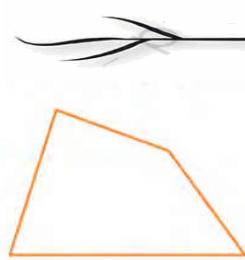
rectangle
rhombus
square
trapezium



rhombus
quadrilateral
square
rectangle



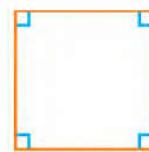
rectangle
rhombus
trapezium
quadrilateral



rectangle
trapezium
quadrilateral
rhombus



rectangle
rhombus
trapezium
square



quadrilateral
square
rectangle
rhombus

Circle all the words that describe the quadrilateral.

1.

- square
- rectangle
- rhombus
- trapezium

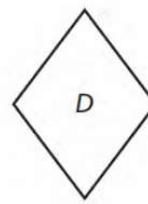
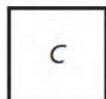
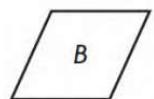
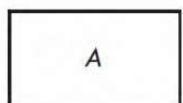
2.

- square
- rectangle
- rhombus
- trapezium

3.

- square
- rectangle
- rhombus
- trapezium

Use the quadrilaterals below for 4-6.



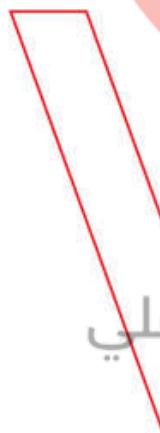
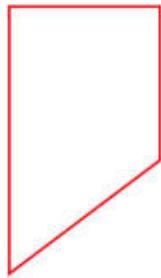
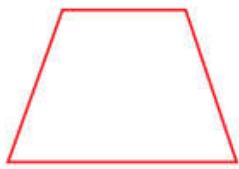
4. Which quadrilaterals appear to have no right angles?

5. Which quadrilaterals appear to have 4 right angles?

6. Which quadrilaterals appear to have 4 sides of equal length?

These are trapeziums.

These are not trapeziums.



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تطبيق التعليم التفاعلي

Directions: Find the missing factor by rolling the die or choosing a number card.

Record the missing factor in one of the problems below and then solve. When finished, draw a rhombus around the fact that was the most challenging and a trapezium around the easiest fact.

Mystery Multiplication

$1 \times \underline{\quad} = \underline{\quad}$

$2 \times \underline{\quad} = \underline{\quad}$

$3 \times \underline{\quad} = \underline{\quad}$

$4 \times \underline{\quad} = \underline{\quad}$

$5 \times \underline{\quad} = \underline{\quad}$

$6 \times \underline{\quad} = \underline{\quad}$

$7 \times \underline{\quad} = \underline{\quad}$

$8 \times \underline{\quad} = \underline{\quad}$

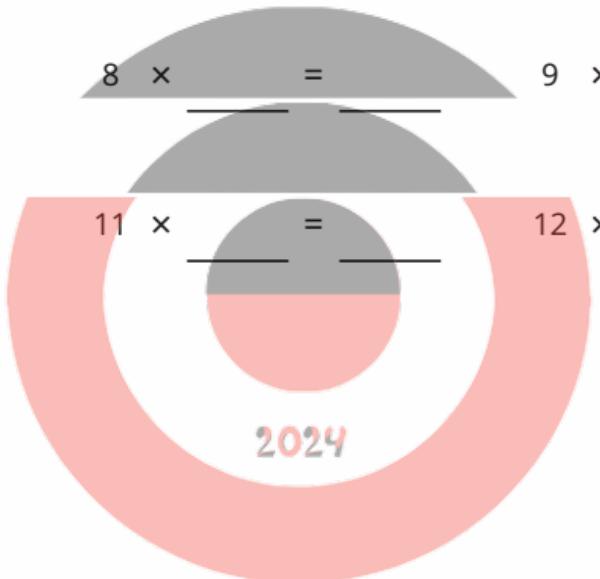
$9 \times \underline{\quad} = \underline{\quad}$

$10 \times \underline{\quad} = \underline{\quad}$

$11 \times \underline{\quad} = \underline{\quad}$

$12 \times \underline{\quad} = \underline{\quad}$

Work space:



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تطبيق التعلم التفاعلي



2 THE AREA

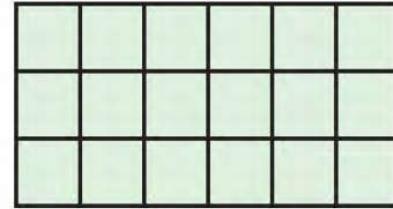
Cristina has a garden that is shaped like the rectangle below. Each unit square represents 1 square meter. What is the area of her garden?

One Way Count unit squares.

Count the number of unit squares in all.

There are _____ unit squares.

So, the area is _____ square meters.



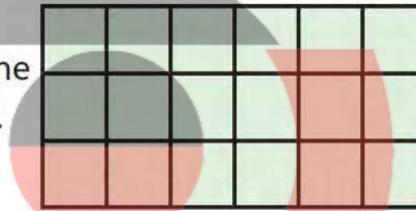
Other Ways

A Use repeated addition.

Count the number of rows. Count the number of unit squares in each row.

_____ rows of _____ = _____

Write an addition equation.



$$2024 + + =$$

- _____ unit squares
- _____ unit squares
- _____ unit squares

So, the area is _____ square meters.

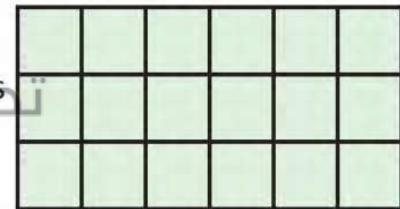
B Use multiplication.

Count the number of rows. Count the number of unit squares in each row.

_____ rows of _____ =

This rectangle is like an array. How do you find the total number of squares in an array?

_____ unit squares in each row



$$_____ \times _____ = _____$$

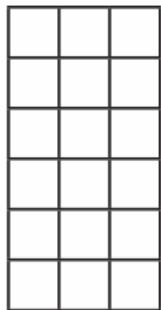
Write a multiplication equation.

So, the area is _____ square meters.



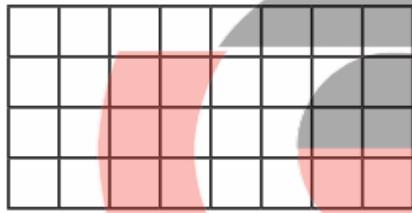
Directions: Determine the area of each rectangle.

Rectangle #1:



Total area = _____ square units

Rectangle #2:



Total area = _____ square units

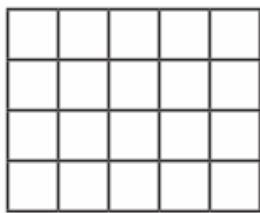
Rectangle #3:



Total area = _____ square units

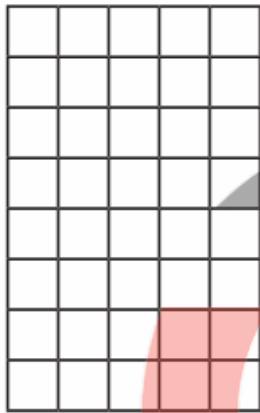
GPS
تطبيق التعليم التفاعلي

Rectangle #4:



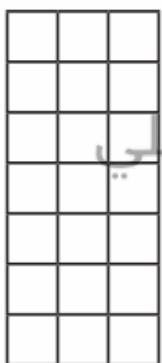
Total area = _____ square units

Rectangle #5:



Total area = _____ square units

Rectangle #6:



Total area = _____ square units

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تطبيق التعليم التفاعلي

1. Look at the figure.

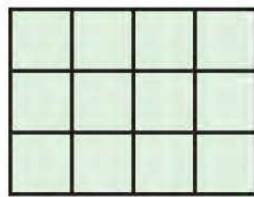
_____ rows of _____ = 

Add. _____ + _____ + _____ = _____

Multiply. _____ \times _____ = _____

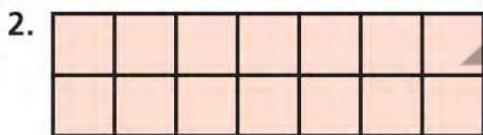
What is the area of the figure?

_____ square units

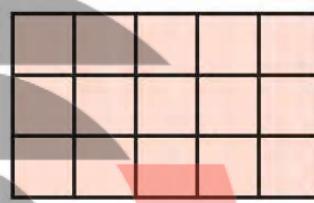


Find the area of the figure.

Each unit square is 1 square foot.

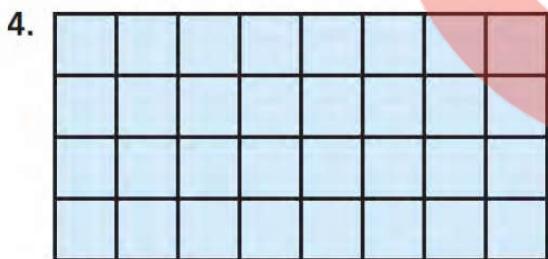


3.

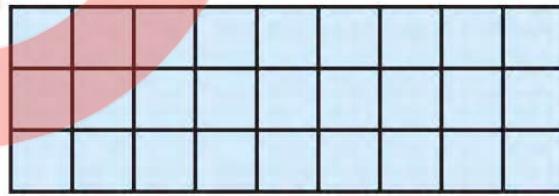


Find the area of the figure.

Each unit square is 1 square meter.

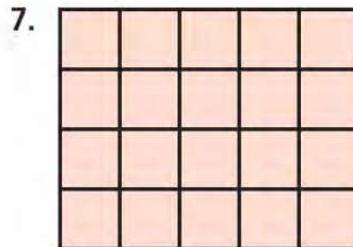
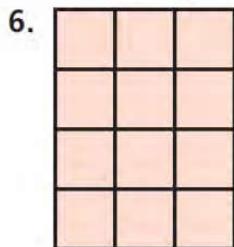


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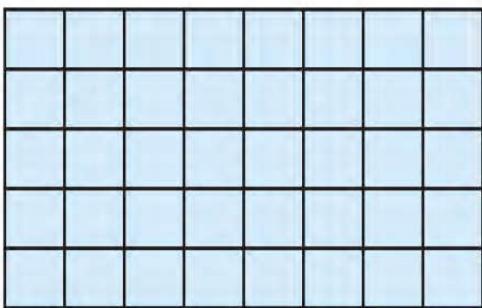
Find the area of the figure.

Each unit square is 1 square foot.

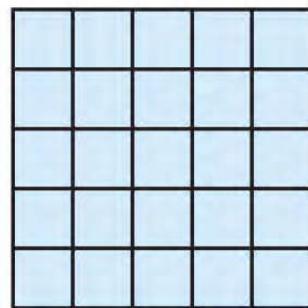


تطبيق التعليم التفاعلي

8.



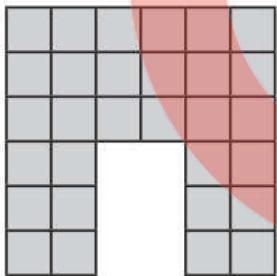
9.



CHALLENGE:

These gardens are not rectangular. Can you find the area anyway?
Show your thinking.

Problem 1:

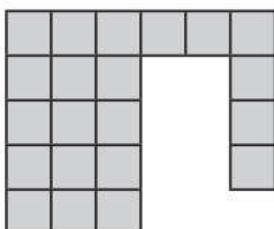


Total area = _____ square units

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تطبيق التعليم التفاعلي

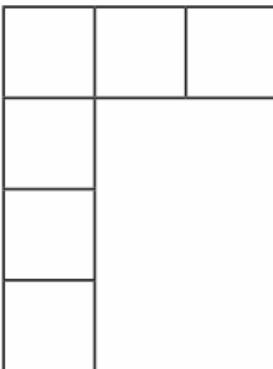
Problem 2:



Total area = _____ square units

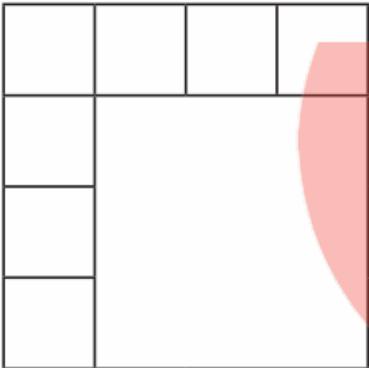
Directions: Determine the total area of each shape.

Rectangle #1:



Total area = _____ square units

Rectangle #2:



Total area = _____ square units

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Rectangle #3:

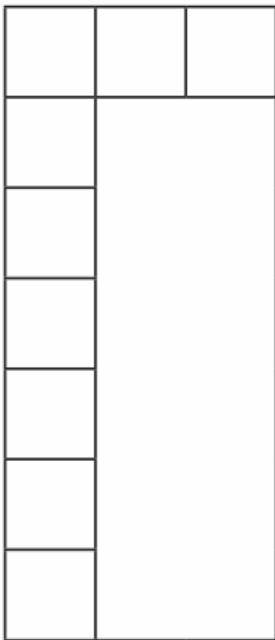


Total area = _____ square units

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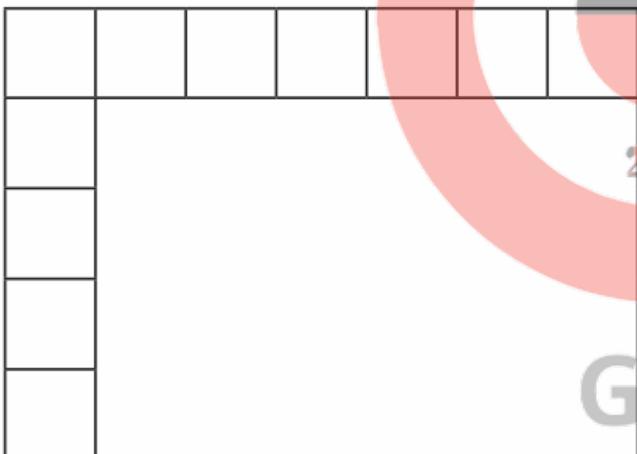
تطبيق التعلم التفاعلي

Rectangle #4:



Total area = _____ square units

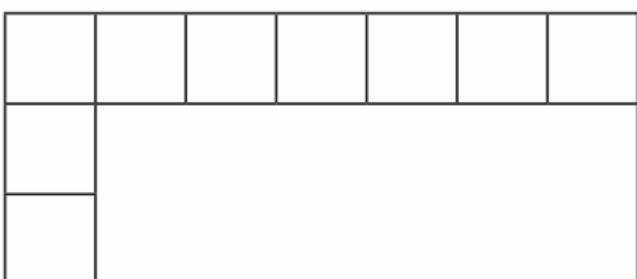
Rectangle #5:



Total area = _____ square units

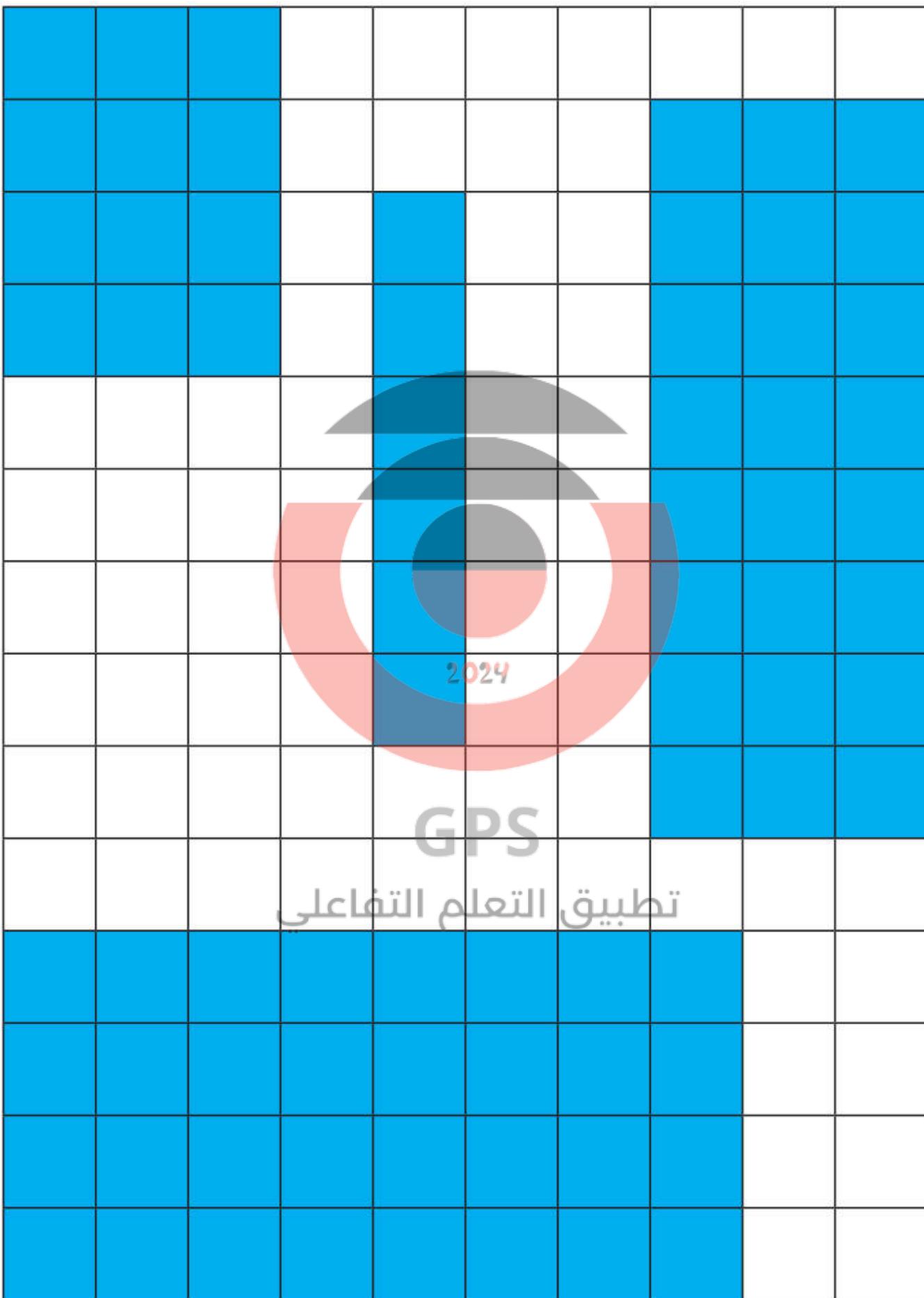
تطبيق التعليم التفاعلي

Rectangle #6:



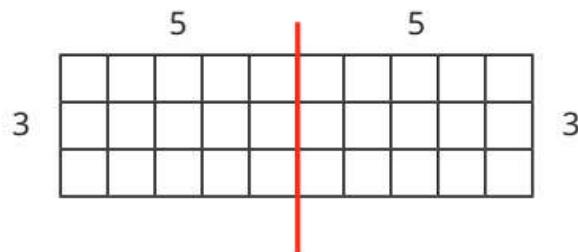
Total area = _____ square units

CHALLENGE: Determine the total area of the following shapes.

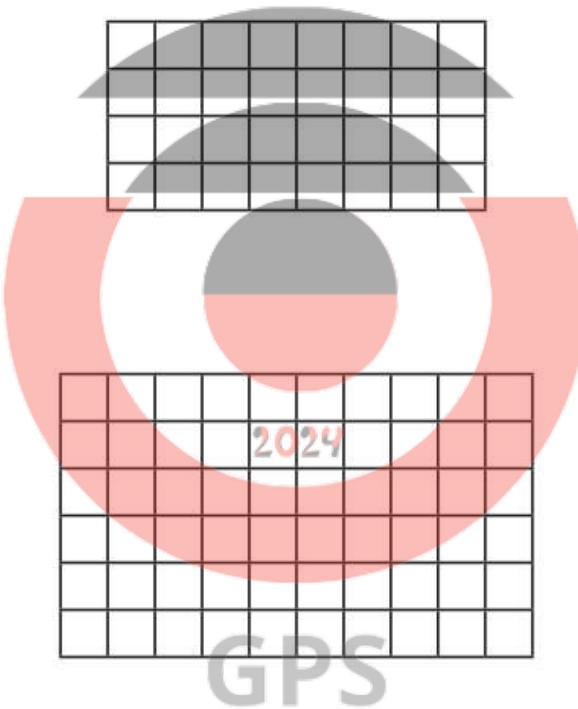


Directions: Split the arrays below into at least 2 smaller arrays. Label the factors for each part. An example is shown below.

Example

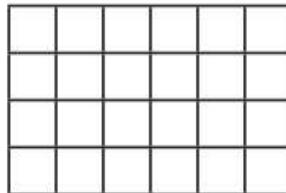


Problem #1



Problem #2

Problem #3

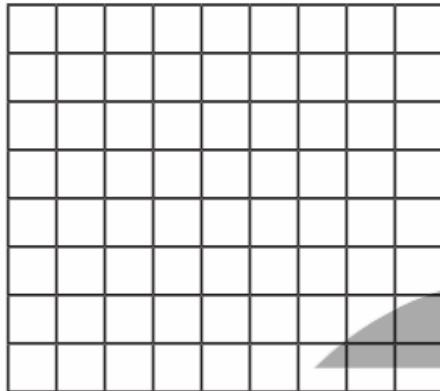


تطبيق التعلم التفاعلي

3 DISTRIBUTION PROPERTY

Directions: Break apart the arrays and, using the distributive property, write an equation to show your work.

1.



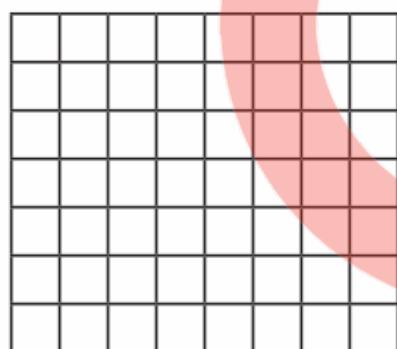
$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\boxed{\quad} + \boxed{\quad} = \bigcirc$$

$$8 \times 9 = \underline{\quad}$$

2.



$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

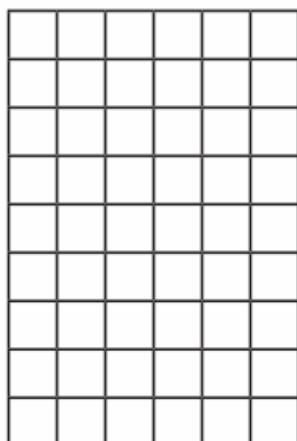
$$\boxed{\quad} + \boxed{\quad} = \bigcirc$$

$$7 \times 8 = \underline{\quad}$$

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تطبيق التعلم التفاعلي

3.

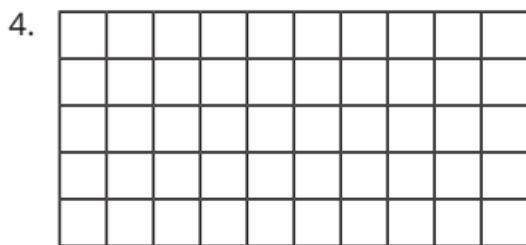


$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\boxed{\quad} + \boxed{\quad} = \bigcirc$$

$$9 \times 6 = \underline{\quad}$$

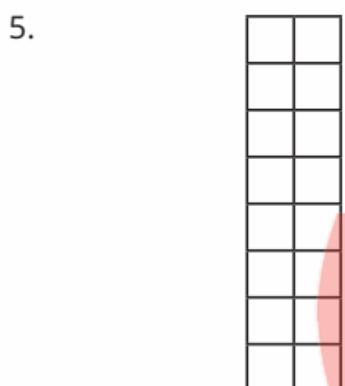


$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\boxed{\quad} + \boxed{\quad} = \bigcirc$$

$$5 \times 10 = \underline{\quad}$$



$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\underline{\quad} \times \underline{\quad} = \boxed{\quad}$$

$$\boxed{\quad} + \boxed{\quad} = \bigcirc$$

$$8 \times 2 = \underline{\quad}$$

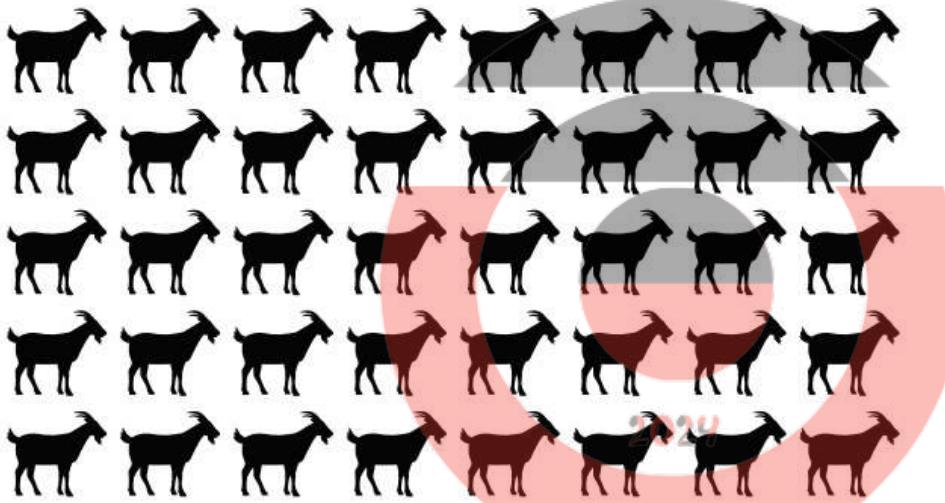
Directions: Break up the following arrays in as many different ways as possible. Use different colors to keep track of your different arrays. Then select the one that is most helpful to you as a mathematician and write the equations that match it in the box.



Equations:

٢٠٢٤ ٢٠٢٤ ٢٠٢٤
٢٠٢٤ ٢٠٢٤ ٢٠٢٤
٢٠٢٤ ٢٠٢٤ ٢٠٢٤
٢٠٢٤ ٢٠٢٤ ٢٠٢٤

Equations:



Equations:

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تطبيق التعليم التفاعلي



Equations:



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Equations:

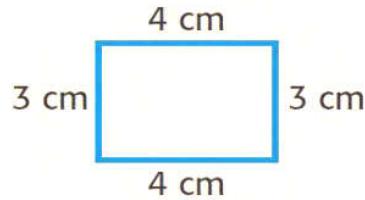
GPS

تطبيق التعليم التفاعلي

Chapter Five

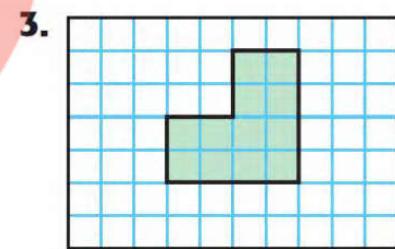
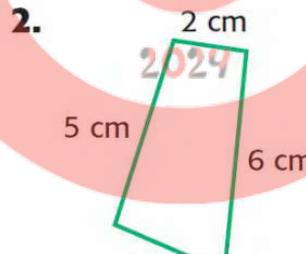
1 PERIMETER

The perimeter of a polygon is the sum of the side lengths.



$$\begin{aligned}\text{Perimeter} &= 3 \text{ cm} + 4 \text{ cm} + 3 \text{ cm} + 4 \text{ cm} \\ &= 14 \text{ cm}\end{aligned}$$

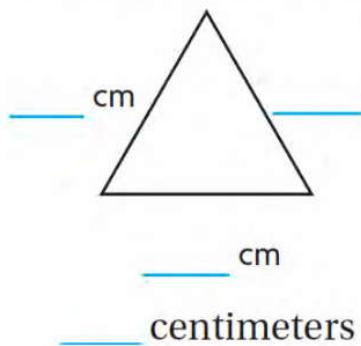
Find the perimeter of each figure:



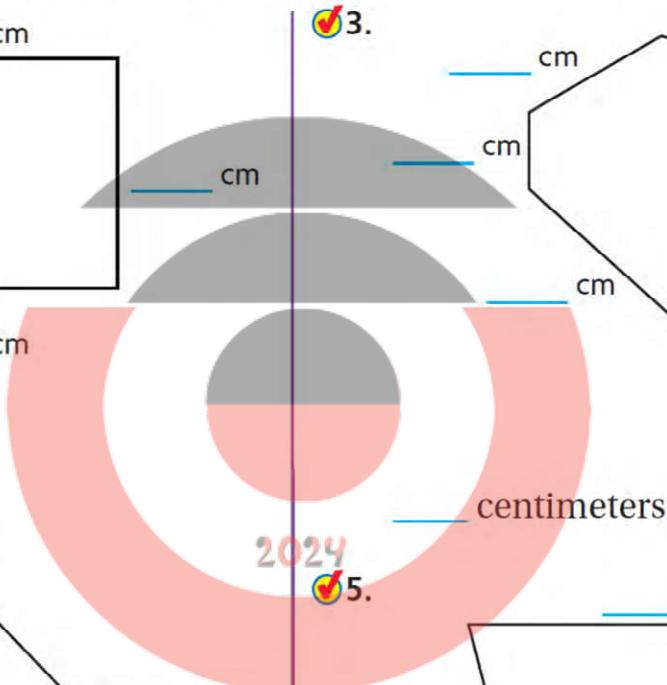
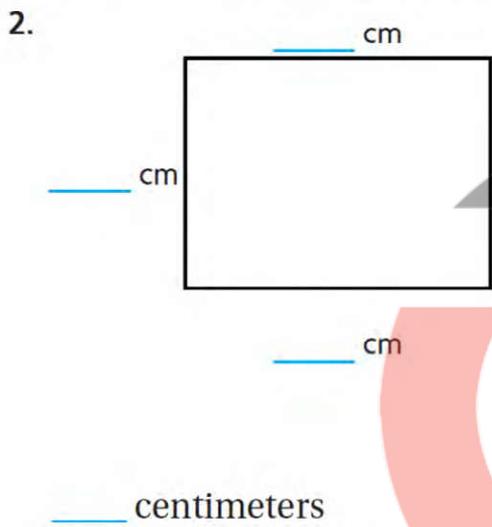
(1)
 (2)
 (3)

تطبيق التعليم التفاعلي

Using your ruler, find the perimeter of each figure:

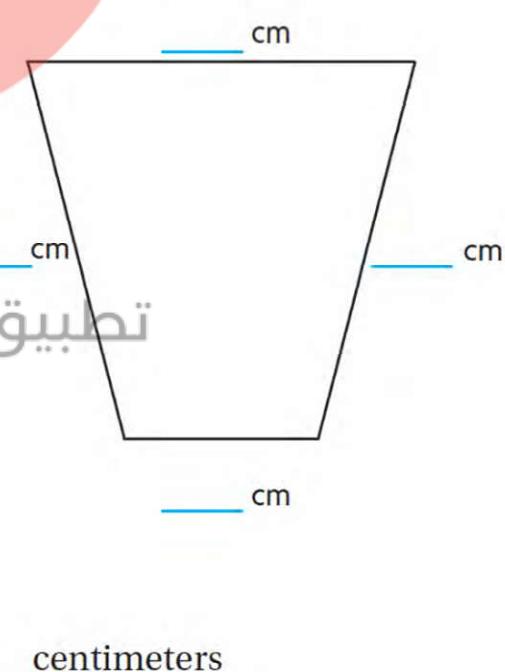
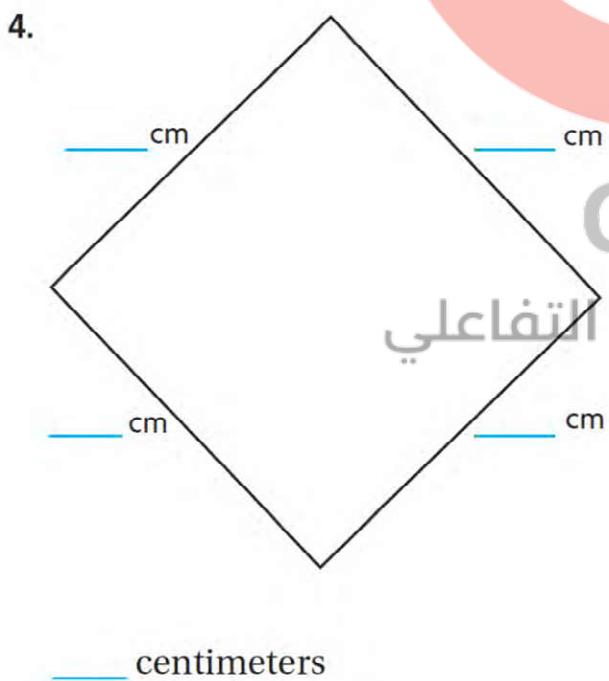


Think: How long is each side?

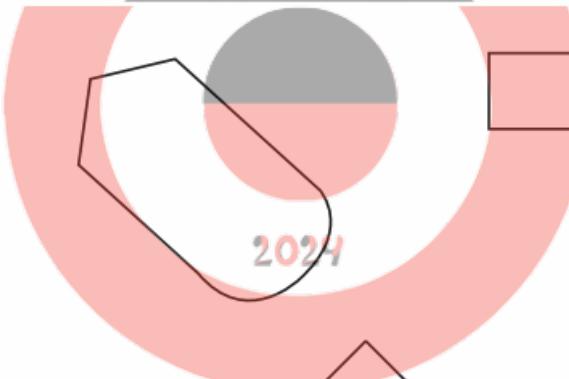
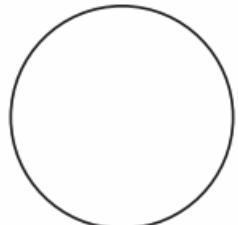
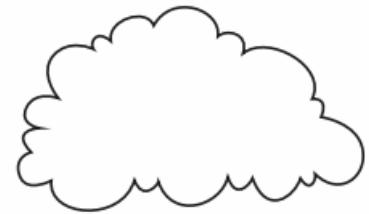
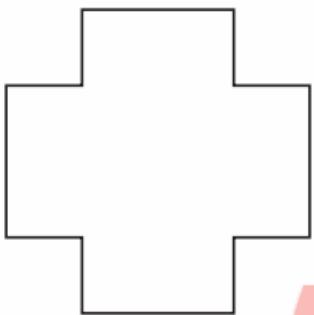
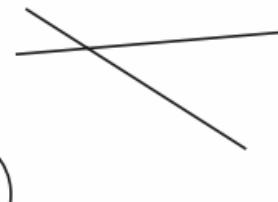
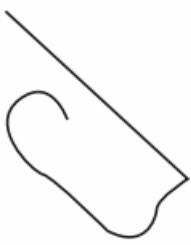
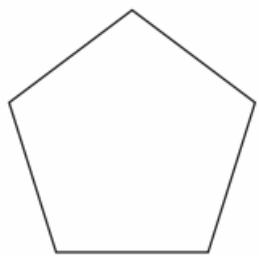


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5.



Directions: Look at the shapes below. Circle the shapes that are polygons and cross out the shapes that are NOT polygons.



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تطبيق التعليم التفاعلي



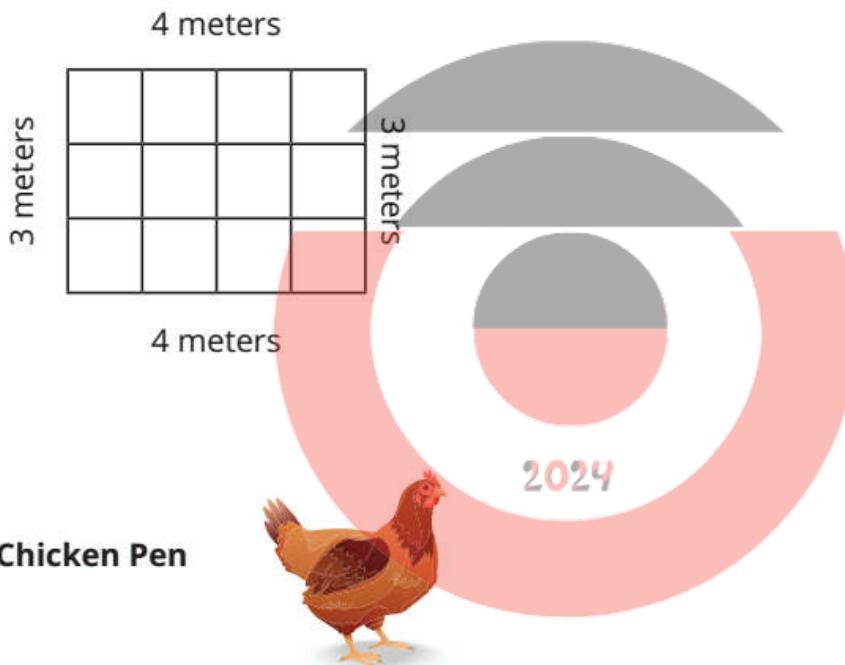
Directions: Work with your Shoulder Partner to solve the perimeter and area problems below. Your teacher will give you additional directions.

Goat Pen



Perimeter = _____ meters Area = _____ square meters

Work Space

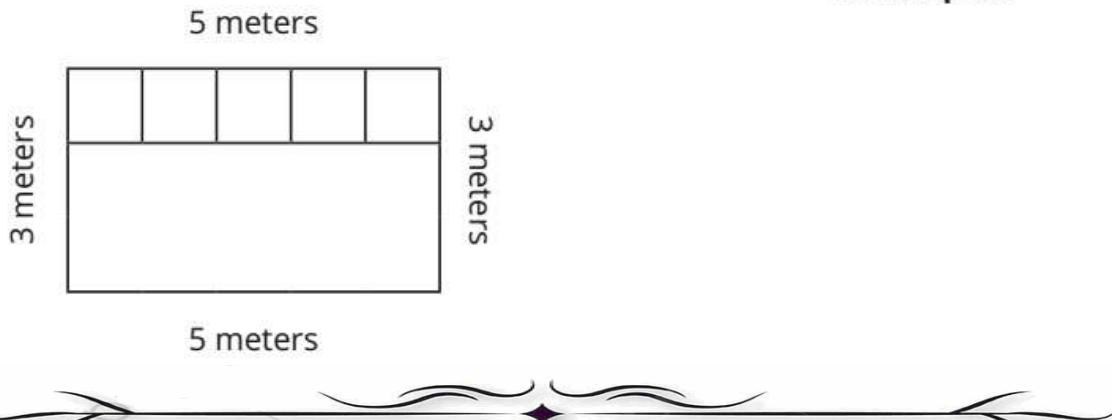


Chicken Pen

GPS

Perimeter = _____ meters Area = _____ square meters

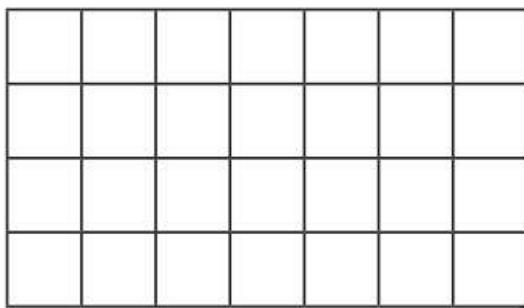
Work Space



**A New
Goat Pen**


7 meters

4 meters


Work Space

7 meters

4 meters

Perimeter = _____ meters

Area = _____ square meters

Cattle Pen


2024

Work Space

9 meters

3 meters



9 meters

3 meters

Perimeter = _____ meters

Area = _____ square meters

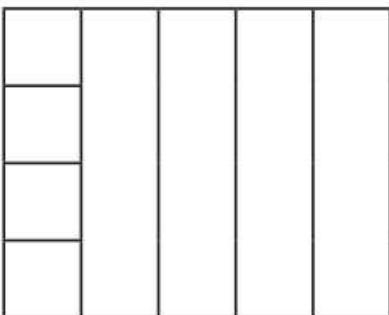


Duck Pen



5 meters

4 meters



5 meters

Perimeter = _____ meters Area = _____ square meters

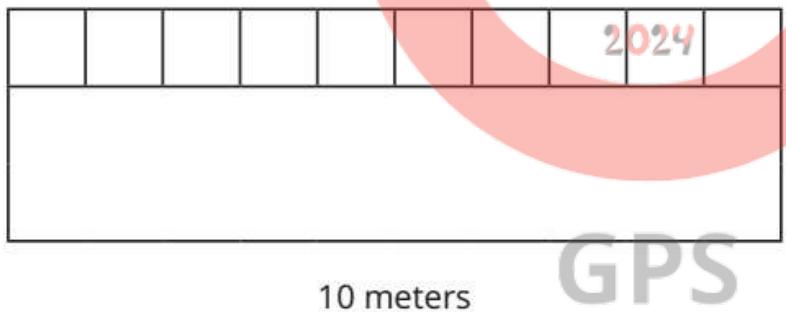
Sheep Pen



10 meters

Work Space

3 meters



Perimeter = _____ meters Area = _____ square meters

GPS



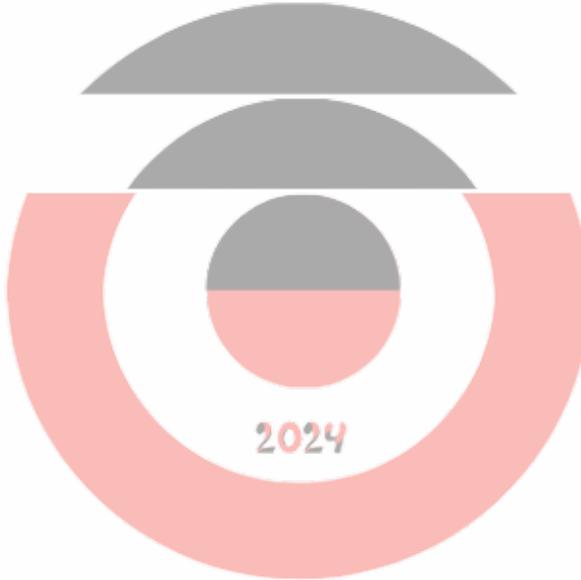
2 DIVISION

Directions: Use counters to solve the division problems below. For each problem, draw a picture to show your solution.

1. $36 \div 6 =$

2. $21 \div 3 =$

3. $48 \div 12 =$

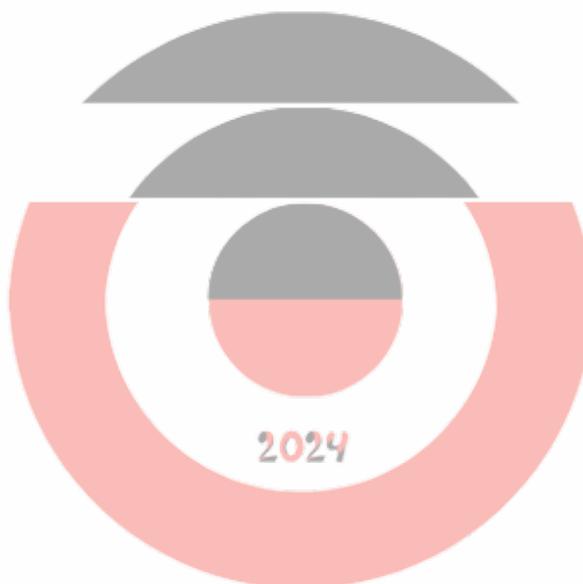


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تطبيق التعليم التفاعلي

Directions: Use counters to solve the division problems below. For each problem draw a picture to show your solution.

1. $27 \div 3 =$



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تطبيق التعليم التفاعلي

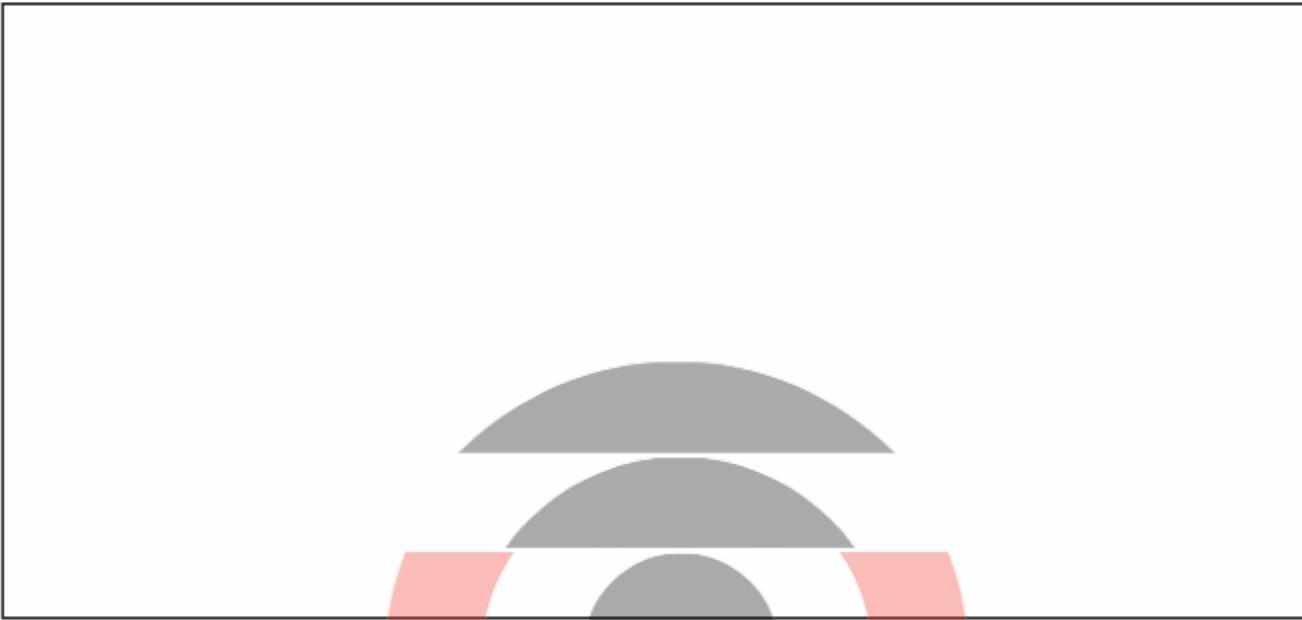
2. $44 \div 11 =$

3. $36 \div 9 =$



Part 1 Directions: Solve the story problems below. Include a drawing and an equation for each problem. Be sure to label your answers.

1. Shaimaa is sewing a border on a square baby blanket. The length of the blanket is 45 centimeters and the width is 45 centimeters. How long will the border be?

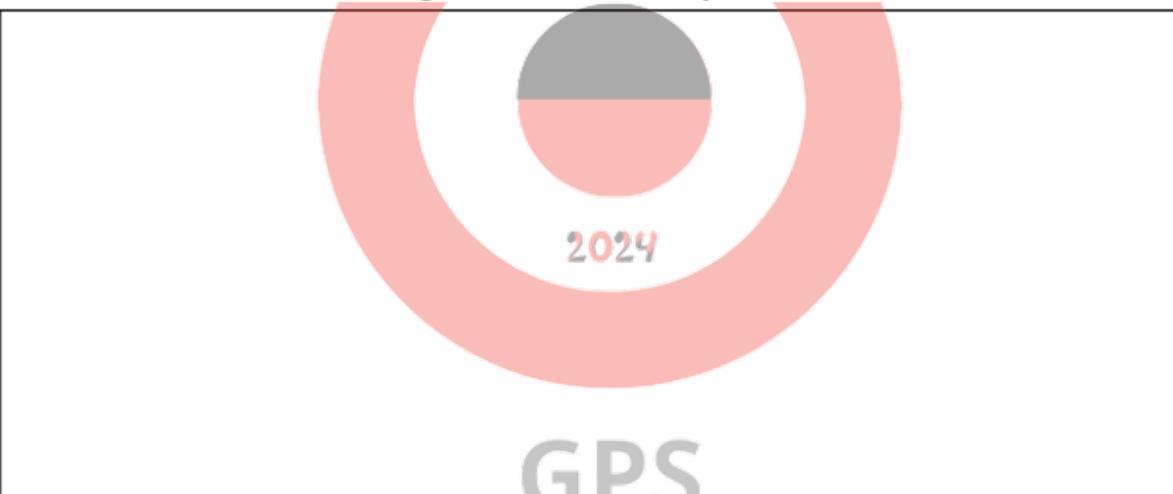


2. Farouk is building a patio out of tiles. He wants the length of the patio to be 7 tiles across and its width to be 6 tiles. How many tiles will he use in all to build the patio?



3. Omnia wants to put a wooden trim around her window. The window is 4 meters tall and 1 meter wide. How much wood does she need for the trim?

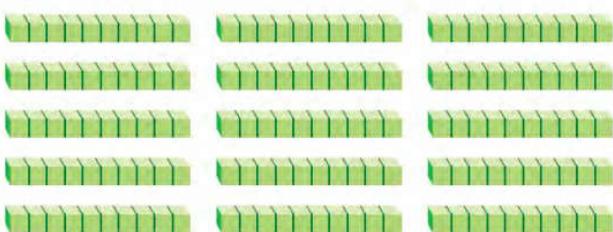
4. A farmer is building a fence around his garden. If the garden is 8 meters long and 3 meters wide, how much fencing does he need to buy?



5. A rug is 3 meters long and 2 meters wide. What is the area of the rug?

3 MULTIPLICATION STRATEGIES

MODEL



THINK

$$5 \times 30 = 5 \times \underline{\hspace{2cm}} \text{ tens}$$

$$= \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$$

So, $5 \times 30 = \underline{\hspace{2cm}}$.

Use the place value to find the product:

- (1) $5 \times 70 = 5 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (2) $4 \times 60 = 4 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (3) $2 \times 80 = 2 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (4) $5 \times 60 = 5 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (5) $3 \times 40 = 3 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (6) $3 \times 70 = 3 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (7) $8 \times 40 = 8 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (8) $6 \times 90 = 6 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (9) $9 \times 10 = 9 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (10) $8 \times 20 = 8 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (11) $7 \times 40 = 7 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (12) $3 \times 50 = 3 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (13) $4 \times 40 = 4 \times \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}} \text{ tens} = \underline{\hspace{2cm}}$
- (14) $2 \times 300 = 2 \times \underline{\hspace{2cm}} \text{ hundreds} = \underline{\hspace{2cm}} \text{ hundreds} = \underline{\hspace{2cm}}$
- (15) $3 \times 400 = 3 \times \underline{\hspace{2cm}} \text{ hundreds} = \underline{\hspace{2cm}} \text{ hundreds} = \underline{\hspace{2cm}}$

Chapter Six

Directions: Solve the problems below. Split the multiples of 10 into 10 and the other factor. For example, 40 has the factors 10 and 4.

Example:

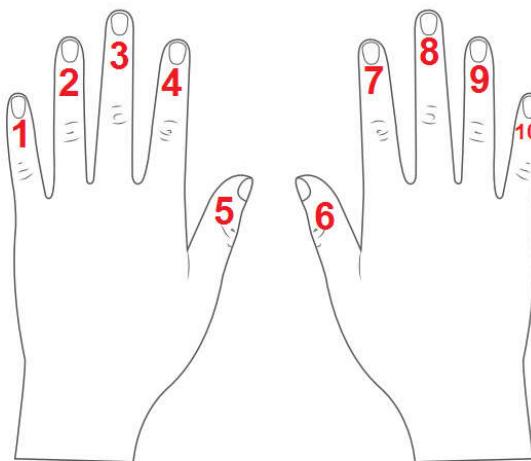
$$8 \times 40$$

$$(8 \times 4) \times 10 = 320$$

| | |
|---|---|
| 3×90 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ | 4×80 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ |
| 9×20 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ | 2024 6×30 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ |
| 8×50 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ | 7×30 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ |
| 6×70 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ | GPS تطبيق التعليم التفاعلي 5×40 $(\underline{\quad} \times \underline{\quad}) \times 10 =$ |



MULTIPLY BY 9 STRATEGY



Directions: Shade in all the multiples of 9. Next to the chart, record what patterns you notice.

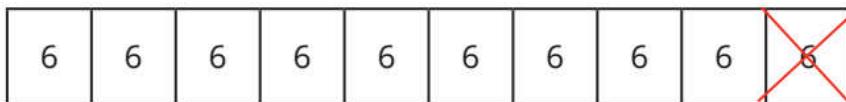
| | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 |

Describe the patterns you observe.

Directions: You can use what you know about multiplying by 10 to quickly multiply by 9. Look at the example below. Solve and discuss each problem with your group.

$$9 \times 6$$

First draw a model of 10×6 and then cross out one group of 6. Now there are 9 groups of 6.



$$10 \times 6 = 60$$

$$60 - 6 = \underline{\quad} \quad \text{so } 9 \times 6 = \underline{\quad}$$

$$9 \times 5$$



$$10 \times 5 = \underline{\quad} \quad \text{so } 9 \times 5 = \underline{\quad}$$

$$2024$$

$$9 \times 7$$



$$10 \times 7 = \underline{\quad} \quad \text{so } 9 \times 7 = \underline{\quad}$$

تطبيق التعلم التفاعلي

$$9 \times 3$$



$$10 \times 3 = \underline{\quad} \quad \text{So } 9 \times 3 = \underline{\quad}$$



Directions: When your teacher gives the signal, solve as many problems as you can in 2 minutes. Use any strategy you learned in Lesson 52.

$9 \times 2 = \underline{\hspace{2cm}}$

$4 \times 9 = \underline{\hspace{2cm}}$

$9 \times 1 = \underline{\hspace{2cm}}$

$9 \times 0 = \underline{\hspace{2cm}}$

$9 \times 10 = \underline{\hspace{2cm}}$

$9 \times 2 = \underline{\hspace{2cm}}$

$3 \times 9 = \underline{\hspace{2cm}}$

$9 \times 5 = \underline{\hspace{2cm}}$

$9 \times 0 = \underline{\hspace{2cm}}$

$9 \times 7 = \underline{\hspace{2cm}}$

$9 \times 9 = \underline{\hspace{2cm}}$

$8 \times 9 = \underline{\hspace{2cm}}$

$1 \times 9 = \underline{\hspace{2cm}}$

$9 \times 0 = \underline{\hspace{2cm}}$

$6 \times 9 = \underline{\hspace{2cm}}$

$9 \times 4 = \underline{\hspace{2cm}}$

$9 \times 2 = \underline{\hspace{2cm}}$

$9 \times 10 = \underline{\hspace{2cm}}$

$9 \times 5 = \underline{\hspace{2cm}}$

$9 \times 8 = \underline{\hspace{2cm}}$

$2 \times 9 = \underline{\hspace{2cm}}$

$9 \times 6 = \underline{\hspace{2cm}}$

$1 \times 9 = \underline{\hspace{2cm}}$

$9 \times 3 = \underline{\hspace{2cm}}$

$9 \times 8 = \underline{\hspace{2cm}}$

$9 \times 6 = \underline{\hspace{2cm}}$

$4 \times 9 = \underline{\hspace{2cm}}$

$10 \times 9 = \underline{\hspace{2cm}}$

$9 \times 7 = \underline{\hspace{2cm}}$

$9 \times 0 = \underline{\hspace{2cm}}$

Gamila said that since 9 is the digit with the largest value, the number 999 is larger than 1000. Do you agree or disagree? Why?

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تطبيق التعليم التفاعلي

| | | |
|-----------------------|-----------------------|----------------------|
| $7 \times 2 =$ _____ | $3 \times 9 =$ _____ | $10 + 1 =$ _____ |
| $6 \times 0 =$ _____ | $4 \times 3 =$ _____ | $2 \times 3 =$ _____ |
| $3 + 9 =$ _____ | $6 + 5 =$ _____ | $0 + 10 =$ _____ |
| $1 \times 7 =$ _____ | $9 + 9 =$ _____ | $8 \times 0 =$ _____ |
| $1 + 9 =$ _____ | $9 \times 9 =$ _____ | $6 + 5 =$ _____ |
| $2 \times 4 =$ _____ | $4 \times 2 =$ _____ | $3 + 10 =$ _____ |
| $9 \times 6 =$ _____ | $6 + 6 =$ _____ | $2 \times 6 =$ _____ |
| $3 + 9 =$ _____ | $3 + 3 =$ _____ | $7 + 3 =$ _____ |
| $10 \times 8 =$ _____ | $2 \times 10 =$ _____ | $0 + 4 =$ _____ |
| $3 + 9 =$ _____ | $9 + 10 =$ _____ | $6 \times 0 =$ _____ |
| $4 \times 8 =$ _____ | $2 \times 10 =$ _____ | $0 + 4 =$ _____ |
| $1 \times 1 =$ _____ | $6 + 1 =$ _____ | $8 \times 8 =$ _____ |
| $3 \times 3 =$ _____ | $5 \times 10 =$ _____ | $5 + 5 =$ _____ |
| $6 \times 1 =$ _____ | $9 \times 6 =$ _____ | $9 \times 0 =$ _____ |
| $10 \times 0 =$ _____ | $5 \times 10 =$ _____ | $6 + 2 =$ _____ |
| $2 + 9 =$ _____ | $0 + 10 =$ _____ | $1 \times 2 =$ _____ |
| $5 \times 8 =$ _____ | $2 \times 3 =$ _____ | $4 + 4 =$ _____ |
| $8 + 9 =$ _____ | $9 + 6 =$ _____ | $6 \times 7 =$ _____ |
| $0 \times 8 =$ _____ | $9 \times 10 =$ _____ | $10 + 4 =$ _____ |
| $2 \times 5 =$ _____ | $1 + 10 =$ _____ | $4 \times 2 =$ _____ |

GPS

تطبيقات التعليم التفاعلي

**Puzzle 1:**

This number has 5 Thousands, 7 Hundreds, 6 Tens, and 4 Ones. What number is it?

Puzzle 2:

This number has 12 Hundreds, 15 Tens, and 6 ones. What number is it?

Puzzle 3:

Write the following number in standard form. Pay attention to the place value.

$$6,000 + 50,000 + 40 + 300 + 2 =$$

Puzzle 4:

Write the following number in expanded form.

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Puzzle 5:

Radwa ordered the following numbers from smallest to largest. What did she do incorrectly?

5,021 5,201 5,102 5,210

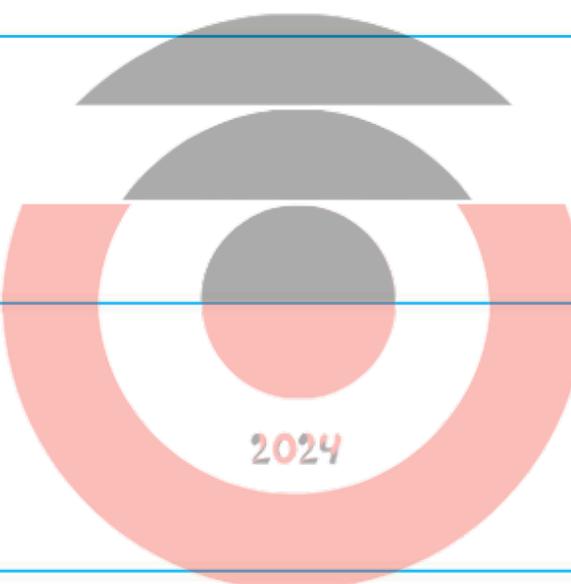
Reorder the numbers correctly: _____, _____, _____, _____

Puzzle 6:

Sara compared the numbers below. What is her error?

$$13,470 < 13,407$$



| PROBLEM | WORK SPACE | SUM |
|-------------|---|-----|
| $97 + 184$ | | |
| $483 + 201$ | | |
| $823 + 262$ |  | |
| $677 + 233$ | | |
| $865 + 337$ | GPS تطبيق التعلم التفاعلي | |



Data Table 1: The table below shows the number of students in each grade level in a large school in Cairo. Use this information to answer the questions below.

| GRADE | NUMBER OF STUDENTS |
|-------|--------------------|
| P1 | 272 |
| P2 | 356 |
| P3 | 529 |
| P4 | 487 |

Questions:

How many students are P1 and P4 all together?

How many students are in P3 and P4 all together?

Fareed says there are more students in P1 and P3 then there are in P2 and P4. Do you agree or disagree? Prove your answer.



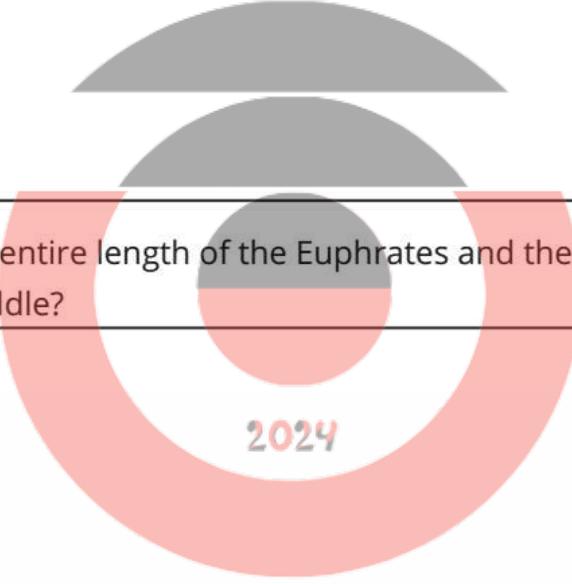
Data Table 2: The following table shows the length of some of the world's longest rivers. Use the information to answer the questions below.

| RIVER | APPROXIMATE LENGTH IN KILOMETERS* |
|-------------|-----------------------------------|
| Nile | About 6,650 km |
| Amazon | About 6,400 km |
| Mississippi | About 3,775 km |
| Euphrates | About 2,800 km |

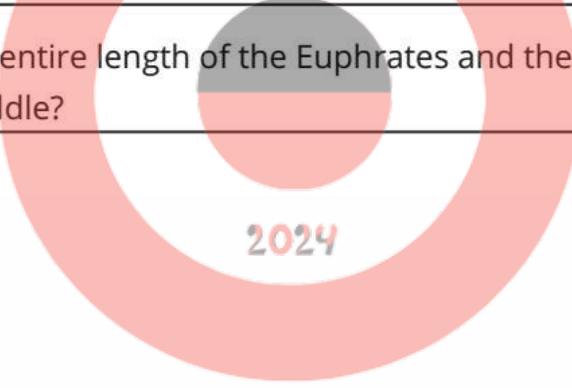
*Source: Encyclopædia Britannica

Questions:

If you laid the Mississippi and the Amazon out in one straight line, about how many kilometers would it cover?



If you were to paddle the entire length of the Euphrates and the Nile, about how many kilometers would you paddle?

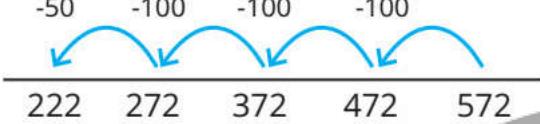
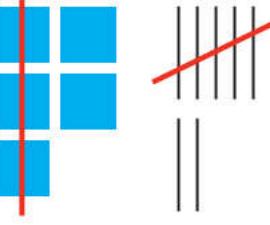
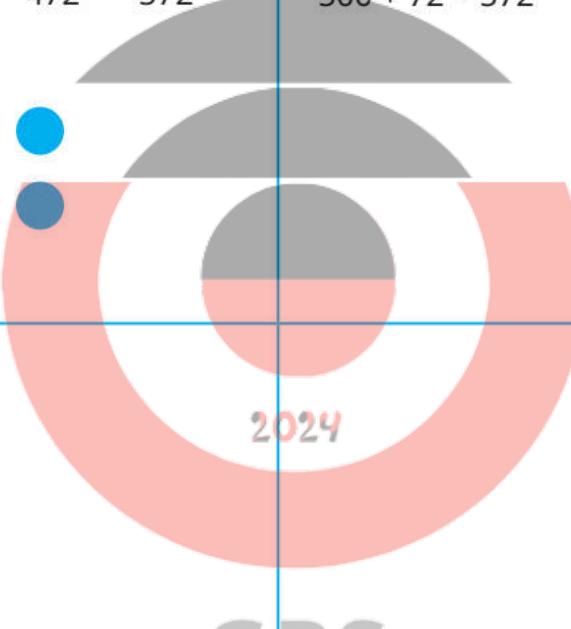


If you were to build a path along the entire length of the Mississippi and the Euphrates, about how long would the path be?

تطبيق التعلم التفاعلي

CHALLENGE: Use the world's rivers chart to determine about how many kilometers you would travel if you decided to raft the length of all four rivers.

Directions: Solve each subtraction problem using any strategy you choose. Then write an addition problem to check your answer. The first one is an example.

| SUBTRACTION PROBLEM | ADDITION PROBLEM TO CHECK |
|---|---|
| <p>Example:</p> $572 - 350 = 222$ <p>Work:</p> <p><i>Number Line</i></p>  <p><i>Place Value Picture</i></p>  | <p>Example:</p> $222 + 350 = 572$ $200 + 300 = 500$ $22 + 50 = 72$ $500 + 72 = 572$ |
| <p>1. $780 - 450 =$</p> <p>Work:</p> <p>2. $925 - 610 =$</p> <p>Work:</p> |  |

SUBTRACTION PROBLEM

ADDITION PROBLEM TO CHECK

3. $2,550 - 1,225 =$

Work:

4. $3,000 - 1,500 =$

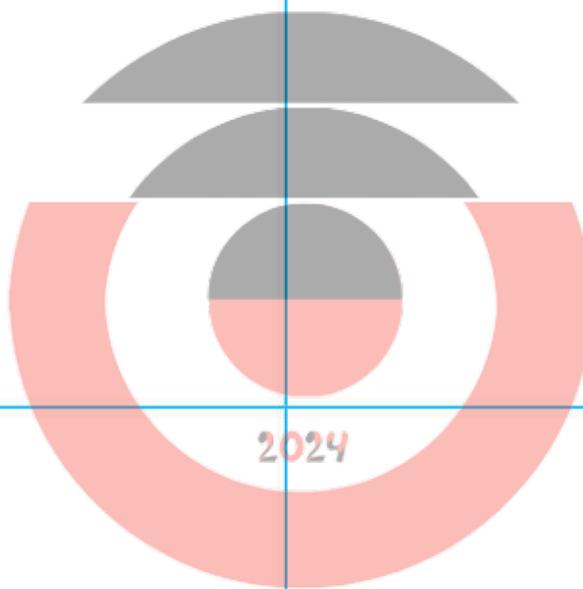
Work:

5. $5,548 - 3,315 =$

Work:

6. $1,759 - 1,255 =$

Work:



THE CAPACITY

Liters and Milliliters

We use the graduated cylinder to measure the liquids

Choose the better estimate for the capacity of each.



1. 3 L or 30 mL



2. 1 L or 5 L



3. 14 L or 14 mL

Choose the unit you would use to measure the capacity of each. Write mL or L.

4. bathtub

5. a spoon

6. a container of milk

Choose the better estimate for the capacity of each.

7.



100 L or 100 mL

8.

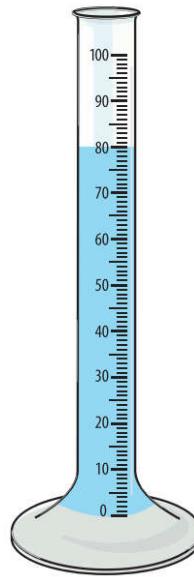


20 L or 2 L

9.



200 mL or 200 L



Choose the unit you would use to measure the capacity of each. Write mL or L.

10. a pail

11. a soup can

12. a drinking glass

13. a pond

14. a small vase

15. a watering can